

SINCE 1947



CATALOG WS-07

# FAIR RADIO SALES CO. WORLD'S FINEST ELECTRONIC SURPLUS

GOVERNMENT AND COMMERCIAL

**MANY ITEMS AT SPECIAL SALE PRICES !**

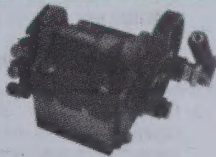
## R-390A Rack Cabinet

19" Rack Cabinet for R-390A, R-388, SP-600, etc... 16-gauge steel, Rails are fixed both front and rear, round hole punched for 10-32 clip-nuts to full EIA hole centers (5/8 - 5/8 - 1/2 inch spacing). Includes rubber feet,

2 lifting handles, a starter pack of 10-32 clip nuts & matching black screws. 10.5" Rack Height. Overall height 2" over panel height. 17" Deep. Overall width is 21". Recommended maximum weight 600 pounds. Rugged powder paint finish. Hammond Mfg. 28 lbs sh. Drop shipped from NY. New, #RCBS1901017BK1, List, \$178.58; Our Price, \$149.50 As above except 13" deep, #RCBS1901013BK1, \$119.50

## Handcrank Generator

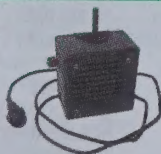
GN-38 Handcrank Generator, with flat magnets but has shorter fold-up GC-9 crank. Used in EE-8 and other older military phone equipment. 4"L x 2.5" diameter. 4 lbs sh. #GN-38, \$35.



G-42 (or equal) Handcrank Generator, used in various military phone equipment such as TA-312. 90V w/ very low amps. Use to replace "dead" generator in antique phone or for remote bell ringer or as "worm shocker". 4"L x 2.5" diameter. 4 lbs sh. #G-42, Used, \$42.00

## LS-166 Speaker

LS-166/U Permanent Magnet Speaker, used with the older style military radio sets. 3 Watts in to 8 Ohms, and coupled through a sealed, 8 Ohms to 600 Ohms impedance transformer. Frequency response 300Hz to 7KHz. Field or vehicular use modes switch. Cord terminated with a U-77 connector. 7 lbs sh. #LS-166, Government Reconditioned. \$60.00



## SCR-522 Radio



SCR-522 Airborne Transceiver covers 100-156 Mhz, 8 watts, Operation may take place on any one of four crystal-controlled channels lying within the frequency range of 100 to 156 megacycles. Uses Dynamotors PE94 or PE98. 12.5x17.5x10.8, 49 lbs sh. #SCR-522, used, \$95.00. #PE98 Dynamotor for above, used, \$35.00.

## LS-3 Loudspeaker

LS-3 Permanent Magnet Loudspeaker. Made by Best. Used with BC-189, BC-312, BC-314, BC-342, BC-652. It can also be used with the BC-224 and BC-348. Mounted on the speaker is an 8000 ohm to voice coil matching transformer. Has a JK-33 input jack which mates with PL-68 plug. 6" diameter speaker mounted in a 8" x 8" x 4.8" housing. Most have 1952 contract date. May have very slight rust. NOS, Smooth satin black finish. Shipping wt 14 lbs, #LS3-SMOOTH. \$49.50



LS-3 Best Mfg, WW2 194X contract date, as above with black crinkle finish. May have very slight rust, NOS. Shipping wt 14 lbs, #LS3-CRINKLE. \$59.50

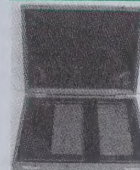
## Screwdriver Antenna

Eliminator Screwdriver Antenna features continuous tuning from 10 thru 80 meters at 400 watts. 2" coil, 36" mast and standard SO-239 coax connector with a balun matching network built inside the antenna. Approved for use with Turbo Tuner and Tar Heel Controllers. A 3/8 x 24 threaded 67" long whip is required but not provided. 12 lbs sh. #ANT-SCD, New, \$320.00

16" Spoke Type Capacity Hat f/ above, #ANT-SPK, \$24  
Truck Bumper Mount Bracket f/ above, #ANT-BMP, \$34.99



## Hydrophone



Microphone for Hostile Environments and Miniature Hydrophone. Small size, piezoelectric transducer for making underwater sound measurements over wide dynamic and frequency ranges. High sensitivity relative to its size. Applications include sound measurements in water and air, ultrasonic measurements in liquids, measurement of marine animal noises. Wide frequency range 0.1Hz to 200KHz. Omnidirectional over wide frequency range. Made by Bruel & Kjaer Instruments, Inc. Comes in a wood case. 4 lbs sh. #BK-8103, Excellent condition. \$199.50

## Ceramic Tube Sockets



GZC5-A, 5 pin Ceramic Socket that fits a 4-125, 4-250, & 4-400 tubes, etc... \$7.95



GZC7-13, 7 pin Ceramic Socket that fits a 1625 tube, etc... \$1.95

GZC12-F-1, 12 pin Compactron Ceramic Socket that fits a 6KD6 tube, etc. \$2.95



## 570 PF Air Variable

25 to 570pf Air Variable Capacitor from 180S1 100 watt Antenna Tuner. Air gap 0.045" spacing. From 180S1. Made by Cardwell. 1/4" diameter shaft. 8.4x2.6x2.3, #C102/180S1, \$59.50



## Roller Inductor



15 uHy Roller Inductor from 180S1 100 watt Antenna Tuner. 3.8" long x 2" diameter coil. Looks like 18 gauge wire. 24 turns. Ceramic end plates. 1/4" diameter shaft. 8.6x3x5.2, #L101/180S1, \$59.50

## ARC-12 Transmitter

T-11A/ARC-12 VHF Aircraft Transmitter. 116-132 Mhz AM 2 watts. Crystal controlled. T-13/ARC-12 Transmitter, 132-148 Mhz AM 2 Watts. 6.8x4.8x5.5, 7 lbs sh. #T-11Used, \$39.95



# Fair Radio Sales

2395 St. Johns RD • Lima, Ohio 45804

419-223-2196/227-6573

• 24 Hr. FAX 419-227-1313

WEBPAGE: [www.fairradio.com](http://www.fairradio.com)

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ORDERING  
INFORMATION  
SEE PAGE 19

MINIMUM  
ORDER \$10.00  
+ SHIPPING



## Hammond HV Xformers

We are proud to be a distributor of Hammond Mfg Transformers & Chokes. All Hammond products we sell are sold at a discount from MSRP.

Transformers & chokes purchased in lot discount may be drop shipped from NY.



Hammond HV Transformers - All end bell style. Primary 115vac 60Hz. New,

380VCT 65ma, 6.3 V@2.5 A, 2.7x2.2x2.7, 3 lbs sh. #269EX, \$36.69; 3 pcs \$30.63 ea

520VCT 90ma, 6.3 V@3.5 A, 3x2.5x3.2, 5 lbs sh. #270DAX, \$46.62; 2 pcs \$41.91 ea; 4 pcs \$39.41 ea

550VCT 200ma, 5 VCT@3 A, 6.3 VCT@6 A, 4x3.2x3.9, 10 lbs sh. Drop shpd from NY. #270HX, List, \$79.13; Our Price \$65.00; 2 pcs \$61.31 ea; 4 pcs \$58.99 ea

600VCT 250ma, 5 VCT@4, 6.3 VCT@8 A, 4x3.8x4.6, 11 lbs sh. Drop shpd from NY. #272JX, List, \$85.78; Our Price \$67.19; 2 pcs \$63.44 ea; 4 pcs \$60.94 ea

640VCT 150ma, 5 VCT@3 A, 6.3 VCT@5 A, 3.5x3.2x3.9, 9 lbs sh. Drop shpd from NY. #276X, List, \$84.90; Our Price \$66.56; 2 pcs \$62.81 ea; 4 pcs \$60.31 ea

700VCT 175ma, 5 V@3 A, 6.3 VCT@5 A, 4x3.2x3.9, 10 lbs sh. Drop shpd from NY. #273BX, List, \$73.84; Our Price \$65.00; 2 pcs \$61.31 ea; 4 pcs \$58.99 ea

750VCT 175ma, 5 VCT@3 A, 6.3 VCT@6 A, 4x3.2x3.9, 10 lbs sh. Drop shpd from NY. #274BX, List, \$79.43; Our Price \$65.00; 2 pcs \$61.31 each; 4 pcs \$58.99 ea

800VCT 200ma, 5VCT@3 A, 6.3 VCT@6 A, 4x3.2x3.9, 11 lbs sh. Drop shpd from NY. #278X, List, \$99.59; Our Price \$76.79; 2 pcs \$73.04 ea; 4 pcs \$70.54 ea

800VCT 465ma, 6.3 VCT@6 A, 5x3.8x4.6, 18 lbs sh. Drop shpd from NY. #278CX, List, \$106.21; Our Price \$81.40; 2 pcs \$77.65 each; 4 pcs \$75.15 ea

850VCT 150ma, 5 V@3 A, 6.3 VCT@5 A, 4x3.2x3.9, 10 lbs sh. Drop shpd from NY. #279X, List, \$90.56; Our Price \$70.51; 2 pcs \$66.76 ea; 4 pcs \$64.26 ea

1000VCT 200ma, 5 VCT@3 A, 6.3 VCT@6 A, 4.5x3.8x4.6, 14 lbs sh. Drop shpd from NY. #282X, List, \$108.39; Our Price \$82.91; 2 pcs \$79.16 ea; 4 pcs \$76.66 ea

## Hammond Filament Xformers

All Open Frame, Primary 115VAC 60Hz. New,

2.5VCT 10A, 2.2x3.7x2.4, 3 lbs sh. #166S2, \$20.36; 4 pcs \$17.48 ea

5VCT 3A, 1.8x3.3x2, 3 lbs sh.

#166MS, \$12.54; 6 pcs \$10.86 ea

6.3VCT 4A, 1.8x3.3x2, 3 lbs sh.

#166N6, \$17.85; 5 pcs \$15.19 ea

6.3VCT 10A, 2.25x4.1x2.7, 4 lbs sh.

#166S6, \$29.24; 3 pcs \$24.92 ea

12.6VCT 4A, 2.13x3.7x2.4, 3 lbs sh.

#166N12, \$21.96; 4 pcs \$18.71 ea

12.6VCT 8A, 2.5x4.5x3, 5 lbs sh.

#166R12, \$30.45; 3 pcs \$25.85 ea



## Hammond Chokes

All Open Frame unless otherwise noted, New,

5Hy 150ma, 105 ohm, 400VDC, 2x3.3x2, 3 lbs sh. #158Q, \$19.26; 4 pcs \$16.64 each

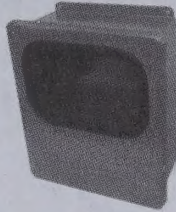
8Hy 100ma, 259 ohm, 400VDC, 1.8x3.3x2, 3 lbs sh. #157M, \$21.48; 4 pcs \$18.34 each

10Hy 100ma, 262 ohm, 400VDC, 2x3.3x2, 3 lbs sh. #158M, \$19.02; 4 pcs \$16.46 each

15Hy 100ma, 256 ohm, 500VDC, 2.3x4.1x2.7, 4 lbs sh. #159M, \$24.42; 4 pcs \$20.62 each

20Hy 100ma, 181 ohms, 600VDC, End Bell Style, 3.3x2.5x3.1, 5 lbs sh. #193C, \$34.35; 3 pcs \$28.48 ea

## Enclosure



Weather Resistant Enclosure with Window, Great for your outdoor control / monitoring of solar cells, antenna controls, control center for your garden watering system. Cover is hinged and gasketed for weather resistance. O.D. 15.5" x 13.4" x 6.5"; I.D. 13.9 x 11.9 x 5.9; Window 9.4 x 6. The window

allows you to monitor your circuit if you put read-outs behind the window. Made of fiberglass reinforced polyester, Non-metallic. Color - machine gray. Long piano hinge, looks like stainless steel. Made by Robroy Stahl Industrial. 10 lbs sh. #23541412, Unused in factory box, \$49.50

## Books



Aviation 1910, "The Practice and Theory of Aviation" by Grover Loening. "Recent Progress in Aviation" by Octave Chanute. Two articles about early plane engines. Technical details of airplanes of 1910; simple scale drawings of the Farman, Doy, Wright; info on control surfaces, landing gear, engine horsepower, controls, the frame.

See the Wright brothers, Santos-Dumont, DeLagrange and others in flight. Listing of significant flights made by all pilots from the Wright brothers in 1903 to Hubert Latham's flight at Mourmelon, France in 1910. Details on 2 new Wolseley engines built for airplanes and an engine competition held in October 1909 and how unreliable the entrants were, you'll know the early fliers risked their lives every time up. 64 pages. #23470, \$8.95

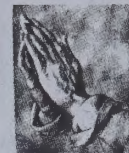
Windmills & Windmotors, different types of turn-of-the-century windmills. Build a model tower windmill like those in Holland, a power-producing windmill with 3' diameter sails, a 6' diameter windmill capable of driving a 30 watt dynamo, a 10' diameter windmotor. Drawings show how the all-wood machine is built, and how metal gearing brings the power down to ground level. 88 pages. #4279, \$6.95



Radio Pioneers, Published in 1945 by the Institute of Radio Engineers (IRE) as a keepsake for their Radio Pioneers Dinner in November 1945. You get a history of the IRE from it's beginning in 1908 with photos of John Stone Stone, Robert Marriott, Pickard, Kennelly, Pupin, Pierce, Morecroft, Langmuir and

others. Pictures of early tubes, Poulsen in his lab, Marconi parabolic reflectors, a Fessenden alternator. The history is brief, fast reading, but informative. You'll meet the personalities and discover what they did. Then you can go digging for more information about those topics that sound most interesting. 64 pages. #23462, \$8.95

Electrical Things Boys Like to Make, Fifty years ago boys made these projects: from a door-bell and night light to a corn popper, crystal set, and toy motors. Get thirty three projects illustrated with detailed drawings and photographs. Basic construction techniques such as coil winding, soldering, building a punch jig and the use of hand tools, more. Build a crystal set or motors, help a child to build an interesting project and stimulate their interest in technology. 205 pages. #23241, \$9.95



GOD IS  
JUST A  
PRAYER  
AWAY

Fair Radio buys your excess material. We may be interested in some items in low quantities, but prefer higher quantities for our catalog sales.

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FOR ORDERING INFORMATION SEE PAGES 19



## R-390A Parts & Assy

Maintenance Manual Reproduction for R-390A, \$23.00  
Operators Manual Reproduction for R-390A, \$12.00



VFO from R-390A HF receiver with 5749 tube; various mfg (no choice). 4x3x7.5, 4 lbs, used dented less connectors & coupler "as-is", #VFO/R390A,\$26.50

455KHz Beat Frequency Oscillator for famous HF Receiver R-390A. UNUSED CONDITION! 3.3x1.5, 2 lbs sh. #390A-BFO, \$32.50



I.F. DECK for R-390A IF transformers, Z501 and 455KHz crystal, and tubes. Less all four 455KHz mechanical filters, BFO, Carrier pot. RT510 ballast and tube shields; 4 lbs. #IF/390A, "as-is" \$59.50

### Replacement assemblies & parts for the R-390A:

AC Terminal Protective Cover, #390A-ACP,	\$8.00
CRYSTAL OSCILLATOR (no crystals) #390A-CO,	\$25
CRYSTAL, BAND, #390A-(crystal freq.)-CR,	\$12
DIAL, COUNTER, #390A-DC,	\$25.00
GEARS, #39, #390A-G-39; or #21, #390A-G-21, \$12	
GEARS others less clamp, #390A-G-(specify#),	\$3.50
GEAR CLAMPS, 1/4" only, #390A-GC,	\$3.50
HANDLES per pair, #390A-HAND,	\$18.00
KNOBS, small size, #390A-SM,	\$6.00
KNOBS, medium size, #390A-MED,	\$6.00
POWER SUPPLY without tubes, #390A-PS,	\$35.00
TRANSFORMER, RF, #390A-RF- (specify #)	\$11.00
TRANSFORMER, IF, #390A-IF- (specify #)	\$14.00
SLUGS, IF Variable, #390A-SL-IF,	\$6.00



### Test Connectors to

make test extender cables for R-390A receiver. You receive

the 5 male/female connector pairs with covers to make the following extender cables along with instructions from manual: P110-J410(Crystal Osc), P111-J811/P119-J619 (Power supply/Audio), P120-J620(Audio), P112-J512(IF Amplifier), P108-J208/P109-J709(RF Amplifier/VFO). #390A-CON,\$69.95

### R-390A Fuses, New,

0.1 amp (good replacement for 1/8 amp), #6FF0.1N, 5 for 2.50, 10 for \$3.95  
0.25 amp, #6FF0.25N, 5 for 2.50, 10 for \$3.95  
3.15 amp (good replacement for 3 amps), #6FF3.15N, 10 for \$1.95

### --- COVERS FOR R-390A ---

Hard to find aluminum replacement top and bottom covers for R-390A series. Very close to original. Newly manufactured, #390-TB, \$89.95  
RF Cover, Newly manufactured, #390-RF, \$25.00  
Set: top, bottom, & RF; newly mfg, #390-S, \$109.95

### --- NAME TAGS FOR R-390A ---

Reproduction Name Tags for R-390A radios. Multiple mfg available. New, \$24.99 each

Motorola Large Print, 3"Wx7/8"H, #TML390  
Motorola Small Print, 3"Wx7/8"H, #TMS390  
Collins, 2.5"Wx1"H, #TC390  
Electronic Assistance Corp., 2.5"Wx1"H, #TE390  
Stewart-Warner, 2.5"Wx1"H, #TS390

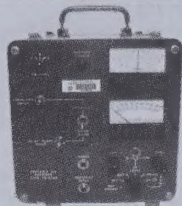
### R-390A Connectors:

UG-573 Type "C" Male Unbalanced Silver Plated Connector/R-390A. #UG-573, Unused cut-off,\$6.50  
Twin-Ax male, Amphenol, New, #82-5589-RFX, \$9.95; 3 / \$25.00  
Mini-BNC p/o R-390A, #390A-MBNC, used, \$3.00  
As above but chassis, #390A-MBNC-CH, used, \$3.00



Hard to find R-390A balanced input adapter. Goes from Twin-ax male to a UHF female. Unused, #UG-970, \$40

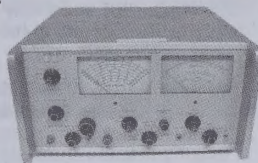
## ILS Receiver



FA-8766 PORTABLE ILS TEST RECEIVER, covers 108.1 to 111.9 (5uv sens) and 329.3 to 335.0 (25 uv) Mhz with separate crystal controlled front ends feeding a common 60 mhz IF through a combiner and then converted to a 3 Mhz second IF. The RF and IF sections are in cast metal shielded assemblies. The solid state receiver has audio and AGC detectors. The audio circuits have 90 and 150 hz bandpass filters, the audio is rectified and the output used to drive the DC meters. This unit is a good basis for modification and experimentation. Power input 120 vac or 18 vdc. Receiver has nicad battery/charger circuit. No warranty as to serviceability of battery. See our web page for more pictures. 10.1x9.5x12, 23 lbs sh. Crystals not included. With schematic/info. #FA-8766, Used \$39.50; 4 for \$100.00

## RFI Receivers

Singer model #NM-17/27 is a programmable, precision electromagnetic interference/field intensity meter for the measurement of conducted or radiated RF interference, within the frequency range of 10KHz to 32 MHz. May be used as a VLF unit. The instrument may be used to analyze narrowband or broadband signals within its frequency range. Field intensity or direct peak detector functions may be used for measurements in addition to quasi-peak, slideback peak and BFO detection modes. AM, FM and PM signals may be detected and are available at the video output receptacle for oscilloscope display. Requires 115/230V at 50 to 400Hz. 18.5x16.7x8.7, 55 lbs sh. #NM-17/27, Used reparable with manual repro, \$595

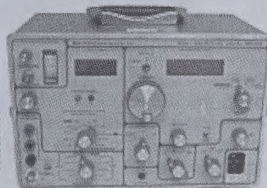


#NM-37/57 same as above except 30MHz-1GHz, \$795

#NM-26T Stoddart type, EMI Rcvr, 150KHz-32MHz, \$595

FAIRCHILD ELECTRO-METRICS R-70B RFI RECEIVER uses 9 tuning heads covering 0.1 to 1100 MHz; with two cases and manual, #R-70B, \$800.00

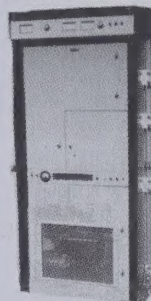
## Selective Level Meter



Rycom 6041 Selective Level Meter / VLF Receiver makes measurements of both level and frequency on frequency division multiplex (FDM) equipment baseband signals.

Although its primary application was intended to be on high-density long-haul microwave systems, the 6041 SLM may be employed on any communications equipment requiring selective/wide band level or frequency measurements. Frequency range for Wide Band Level Meter and Frequency Counter: 50 and 75 ohm - 300Hz to 3.5MHz; 124, 135, 150 ohm - 4KHz to 2.0MHz; 600 ohm - 300Hz to 100KHz. Requires 115VAC 60Hz or Battery. Battery holds a charge for the short term but is sold As-Is. 10.1x12.2x8, 24 lbs sh. #RYCOM-6041, Used Operational, \$595.00

## COLLINS 208U-3A



208U-3A POWER AMP automatically tunable over 2 to 30 Mhz SSB-AM-CW @ 3 KW PEP for use with URG-2 radios. Uses 4CX5000 PA tube; tune time 6 sec nominal, 10 sec max. With modules 333H-2 Electronic Control Amp, 309F-1 Digital to Analog Converter, 915V-2 Amp Control, 652J-13 Power Supply, 599Z-1 Test Panel and 915X-1 Control Monitor. Includes manual copies for all components except 915X-1 & 599Z-1. 72.5x32.6x31; 1200 lbs sh. #208U-3A, Used not tested less 4CX5000, \$3200.00

#208U-3, Used not tested less 4CX3000, \$3250.00

## 100 to 225 MHz Amp

AM-912/GRC AMPLIFIER-MULTIPLIER plug-in for T-302/TRC transmitter; covers 100-225 MHz FM @ 100+ watts using 4X150A tube. Controls Grid & Plate Tune and Amp Output Coupling. Requires +750 V, 200-350 V screen, and 6.3 V filaments; with schematic. 12x6x14, 24 lbs. #AM-912, used, \$89.50  
#AM-915, 225-400 MHz; 4X150A, 4X150G. \$95.00



+++++  
AM-914/TRC AMPLIFIER-CONVERTER, plug-in for R-417 receiver in 225-400 MHz range. Continuous tuning of RF and oscillator; 30 MHz IF. Modify and use as down-converter! With tubes 5670, 4/6J4. Requires 150 VDC & 6.3 V. 7.5x6.5x9.5; 15 lbs sh. #AM-914, USED, \$40.00  
#AM-1179/GRC, 50 to 100 MHz, used, \$45.00  
#AM-1177/TRC, 400 to 600 MHz, used, \$49.50  
#AM-3203A/TRC, 1.35 to 1.9875 GHz, used, \$55.00



## Rockwell Preselector

HF-8064 4-CHANNEL HF PRESELECTOR, auto-tuned band-pass filter for HF-8054 receiver & HF-8014. Provides front-end selectivity & overload protection for Rx; improves cross-modulation & out-of-band intermod. Power: 100/115/215/230 V 47-63 Hz. 5.3x19x24, 32 lbs shipping. #622-3522-203, used, \$695.00



## Harris Preselector

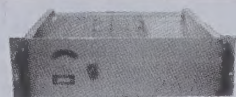


RF-551A PRE-POST SELECTOR highly selective bandpass filter for 2-29.999 Mhz range functions as preselector for

enhancing receiver signal reception or as post selector for reducing exciter output noise when used with 6 db pad (not supplied). 5-decade freq-control knobs & Hi-Lo Gain switch; N conn. Req. 115/230 VAC 47-420 Hz; 5.3x19x20, 36 lbs sh. #RF-551A, Used-nice, \$395.00  
Manual, partial repro, #MM-RF-551A, \$25.00

## UHF Preselector

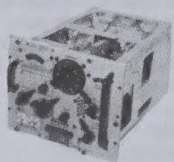
F-1506/G UHF Tunable Band Pass Filter / Preselector covering 225-400 MHz dual tuned. Consists of Lark Engr. FX4000-089 filter with N conn in rackmount package. 5x19x18, 25 lbs sh. #F-1506, Used, \$85.00



VISIT OUR WEBSITE AT FAIRRADIO.COM



## 602-999 MHz Amp



AM-1957 AMPLIFIER-OSCILLATOR, 601.5 to 999.5 MHz plug-in for T-893/GRC-50 transmitter. Utilizes three 7289 tubes as 651-1049.5 MHz oscillator, -50 MHz mixer and 15 watt power amp.

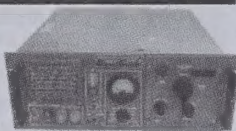
Directional coupler detects Reflected Power and provides

monitor output for external meter circuit. RF passes through duplexer having identical receive/transmit sections each with two cavities. (Receive signal routed to separate AM-1955 receiver module.) Transmit RF then moves to second directional coupler which detects Reflected Power also with output for external meter. Wavemeter samples output RF for frequency measurement using calibration chart. Cathode current of each 7289 regulated by external 250 VDC, 650 VDC, 800 VDC, 5.7 VAC, 5.5 VAC. Schematic and info included. 8.9x11x16, 36 lbs shipping. #AM-1957, Used, \$69.50

\*\*\*\*\*  
AM-1955A/GRC AMPLIFIER CONVERTER used with R-1148A/GRC-50 receiver for 600-1000 MHz band; 60 MHz IF. Uses 4037A/2C40A tube as oscillator; also 5654, 2/5842. W/ wavemeter & calibrate book. Requires 150 VDC, 6.3 V. 15x9.5x8, 30 lbs sh. #AM-1955A, \$30.00

## AM-6154 Amplifier

AM-6154/GRT-21 Power Amplifier conservatively rated for 50 watt output from 10 watt exciter input over 116-150 MHz; uses Eimac X651Z/8930 or



Amperex DX393 tetrode (no choice) in silver-plated cavity-drawer; 175-turn TUNE counter dial. Main chassis has solid-state power supply and buffer amp/multiplier; panel meter monitors voltages. Requires 105/120/210/240VAC 50-400Hz and +20 volt reg 60ma, +20 volt keyed; w/ schematic info. 7x19x18.5, 80 lbs sh. Used Reparable, #AM-6154,\$300

Bias Supply from AM-6154 or AM-6155 amplifier. 7.1x5x4, 7 lbs sh. #BS-6155, Used, \$35.00

AC - AC Inverter from AM-6154 or AM-6155, 7.1x5x4, 7 lbs sh. #INV-6155, \$39.50

## GRT-21/22 Transmitter



T-1109 Transmitter from AN/GRT-22 Radio Set. Frequency coverage is 225-400 MHz AM

in 3500 channels. The crystal controlled transmitter has 10 watts output. Associated amplifier is the 50 watt output AM-6155 listed on page 4 of our catalog. Requires 120/240 VAC. 18x19x5.3, 50 lbs sh., #T-1109, Used, \$59.95

T-1108/GRT-21 Transmitter same as above except 116-150 MHz in 680 channels. Associated amp is AM-6154. #T-1108, Used, \$60.00

Schematic Pack f/ T-1108/T-1109, #SCH-T-1108,\$18.

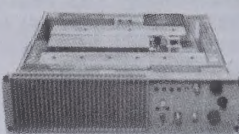
## TIQ-2 Amplifier



AM-20/ TIQ-2 Audio PA Amplifier, Part of the TIQ-2 public address system that has been used since the 1950's uses 6SL7 as

preamp and drivers with 6L6 output tubes. Two mic inputs, phone/line input, radio/carbon mic input. Wood case with cover. Output 20 Watts 5 % distortion, 50 - 10000 hz. Power input 115/230 V 60 hz. Size 19x14x9, 75 lbs sh. Used Reparable, \$250.00

## RF Amp / Preselector



TN-612/G Prepost Selector, consists of RF preselector and broadband power amp. Pre-selector operates in four bands 1.8-3.6, 3.6-7, 7-14, and 10-24

Mhz. Microprocessor-controlled unit has no front panel controls except ON-OFF and indicators for OV DE, OVL, ATT, BITE, TUNE plus silver-plated coils and 3-gang variable capacitor. Frequency is selected by twelve Kilovac HC-1 vacuum relays and nine mini-coax relays along with motor interface adapters. Relays actuated by driver transistors. RF power amp uses four transistors S15-28, T9-0664 and two MRF-466 as output amplifiers. P/O GRC-215 HF-SSB; no further info. Requires 115/230 VAC 50-60 Hz; 4.5x19x17, 46 lbs sh. #TN-612, Unused, \$299.50

Broad Band Power Amplifier Assembly covering 1.6 - 24 MHz



removed from the TN-612 pre-post selector. Uses S15-28, T9-0664 and 2/MRF-466 transistors. 24 VDC. No further info at this time. 2.3x17.3x4.5, 9 lbs sh. #AMP-612, \$79.50

Coils and Variable Capacitor removed from the TN-612 Preselector.

Two silver plated coil boxes each with six coils. The preselector was supposed to cover 2 to 30 mhz in 4 bands. 3 coils for each band. Each coil silver plated wire on epoxy from with ferrite slug is in its own compartment with a glass piston variable capacitor. 13.1x2.2x3.3, 7 lbs sh. #612-COILS, \$50.00

Three section fully shielded variable capacitor 35 - 300 pf per section. Each section is shielded from the others. The insulation material looks like ceramic. Very high quality. 10x2.7x3, 6 lbs sh. #612-CAP, \$35

Both Coils and the Variable Capacitor as listed above. #612-KIT, \$75.00

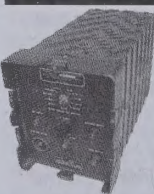
## T-195 Transmitter

T-195/GRC-19 TRANSMITTER 1.5-20 Mhz AM-CW-FSK in ten bands manual or auto tune. Power output 100 W (1.5-12), 90 W (12-16), 80 W (16-20 MHz). Uses



two 4X150D tubes in power amp & 20 other tubes. Requires 22-30 VDC 42 amps input (9 amps "stand-by") for dynamotor supply. LESS METERS. With replacement knobs. Companion to R-392 receiver. 11.5x22x14.5, 135 lbs. #T-195, Used Reparable,\$275 MANUAL for T-195, partial repro, #MM-T-195, \$28.00 30" Power Connector, #CONN-T-195, \$20.00

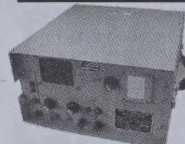
## MD-203 FSK Modulator



MD-203/GR Radio Transmitter Modulator for the T-195/GRC-19 Transmitter. The MD-203 is a link in a complete radio teletypewriter comm. system. The teletypewriter signals developed in Teletypewriter TT-98 are supplied through Junction Box J-668 to the MD-203. The MD-203 is connected

to the exciter section of the T-195 to produce shifts in the CW signal. Uses tubes 7/26A6, 1/26A7. Less knobs. 9.1x13.8x7.3, 26 lbs sh. #MD-203, \$28.

## FAA Radios



TRX-103 UHF Solid State 3 channel, crystal controlled, AM Transceiver type FA-9606 covering the military aviation 225-400MHz band. Has built in speaker. 50KHz channel spacing. Transmitter output is 3

watt. Antenna impedance 50 ohms. Receiver IF is 21.4MHz. Requires 115VAC 60Hz or 24VDC. Crystals not included. Condition of internal battery AS-IS. 14.1X14.2X7.7, 43 lbs sh. Manual repro included. #TRX-103, Used Reparable, \$149.50

TRX-102 VHF AM Transceiver type FA-8979 is similar to above except covers 118-136MHz and requires 120VAC 60Hz or 12VDC. Crystals not included. Condition of internal battery AS-IS. 13.8x13.8x7.9, 38 lbs sh. Manual repro included. #FA-8979, Used Reparable, \$159.50

It is unlawful to operate on these frequencies unless you have a license to do so.

## Aircraft Receiver

R-761/ARC-58 Receiver covers 2 to 29.999MHz, companion receiver and exciter to T-730. Req. 115 VAC 400 Hz input. 7.8x10.3 x23.5, 55 lb. #R-761,



used, \$150.00  
SCHEMATIC, #SCH-R-761, \$12.00  
Control for freq-select; 6 lbs. #C-3141, USED, \$25

\*\*\*\*\*  
MODULES from AN/ARC-58 or TRC-75 radio sets. Each 4.8x4.5 x1.5, 2 lbs sh. USED-not tested:  
AMPLIFIER DETECTOR, 4x 5899 tubes; p/o R-761, #AM-1523, \$20

ELECTRONIC CONTROL AMPLIFIER p/o T605/T-730 xmitter, #AM-1525, \$17.00

Similar to AM-1523, #AM-1526, \$20.00

AMPLIFIER-MIXER for R-761 with ten tubes and slug rack, #AM-1528, \$40; Schematic, #SCH-AM-1528, \$4

AMPLIFIER OSCILLATOR with Collins mechanical filter P455 Z1, #AM-1529, \$32.00

MIXER OSCILLATOR, for R-761; master oscillator 70H13A, interpolation, spectrum generator Mech filters F455 Q2 & Q3. #CV-465A \$62.00

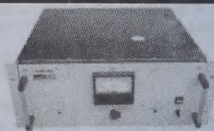
Schematic for CV-465B, #SCH-CV-465A, \$12.00

BALANCED MODULATOR with mechanical filters F300 Z4 and F300 Z5, etc. #MD-286 \$40.

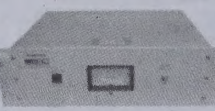
REFERENCE GENERATOR, #SG-179A/URC, \$40.00

## Microwave Transmitter

AML-STX-141 Single Channel Microwave Transmitter 12.7 to 13.25 Ghz operation, 5 Watt output. Manufactured by Hughes. A VHF input of 50



- 450 mhz single sideband suppressed carrier is upconverted to the output frequency. This unit consists of a solid state source, Frequency Sources MS-800XEL-06 or equal, various waveguide bandpass filters and other components. Removed from service. W/ info. With interconnect cable and power supply, 20.3x19x10.2, 47 lbs sh., #AML-SXT-141, Used Reparable, \$200.00



Hughes AML Klystron Power Supply, Power input 95 - 130 VAC, Output -2200 VDC 130 ma and 6.3 vdc 1.3 amp current limited and adjustable. Meter

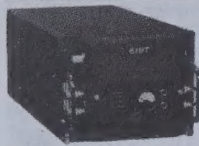
monitors output voltage or current. 16 x 19 x 5.25, 37 lbs sh. with info. Power supply only, #PS-141, \$50.00

CALL US AT 419-223-2196 or 227-6573

24 HOUR FAX 419-227-1313



## Collins 618T



**COLLINS 618T-2 SSB AIRBORNE TRANSCEIVER**, 2-29.999 Mhz SSB-AM-CW in 28000 channels. Power output: 400 watts SSB-PEP 125 W AM-CW; 52 ohm output impd. Sensitivity SSB: 1

uv for 10 db S+N/N. Selectivity SSB: 2.85 KHz, 6 db down; 6.0 KHz 60 db. Audio input: 600 ohms. Uses two 4CX250's in P-A. Switch & meter monitor internal power. Separate control necessary for channel select. Racks & cables not available. Requires 115 V 400 Hz 3 phase 1 KVA & 1 phase 160 VA; also +27 VDC 4.5 amps. W/ manual repro; 7.6x10x22.2, 58 lbs. #618T-2, Used reparable with K9 osc, \$550.00

Like above but requires 28 VDC 35 A and 115 V 400 Hz 1 phase 100 VA. #618T-3, Used, \$695.00

618T power/control connector, no cover, #CONN-618T, \$45.00

**MODULES FROM COLLINS 618T HF TRANSCEIVER**, as removed from equipment—not tested:

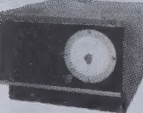
**AM AUDIO AMP** has mech filter F500 Y60 (526 9378); 2 lbs sh. #546-6053, \$45.00

**IF TRANSLATOR** has LSB-USB filters F500 Z4 (526 9377) & Z5 (526 9376). Mech. filter as used in PRC-47 to modify for LSB operation, #544-9286, \$99.00

**KC- FREQUENCY STABILIZER**, has mechanical filter F250 F100 (526 9410) and crystal filter X250KF440 (526 7006); 3 lbs. #618-KC-FRQ, \$40.

**RF TRANSLATOR** with K9 oscillator, 15 lbs. #618-RF-TR, \$200.00

618T RF Reference Osc. Module, includes 3 MHz crystal oven which is divided to 500 KHz output, amplified and then divided again to produce 100 KHz output. 4.3x6x2.7, 2 lbs #528-0251-005, used, \$24.00



**COLLINS 490T-1A (CU-1669A) AUTOMATIC ANTENNA COUPLER** for 618T and similar 2-30 MHz transceivers; rated RF input 630 W PEP, 200 W average. Matches 25 ft or

longer whip or 25-100 ft long-wire antenna to 50 ohm line. Terminal for wire and "C" coax connection. Has 5-500 pf 10 KV vacuum variable capacitor and variable step-coil. Requires 115 V 400 Hz; 7.6x10.1x12.6, 24 lbs. #490T-1A, Used not tested, \$499.

Collins 618T URM-157 Test Set, Consists of TS-1949/URM-157 and cable which connects the TS-1949 to the 618T. The radio set control is part of the TS-1949. Has meter to indicate forward / reflected power 200/2000 watts. Also provides connections for microphone, headset, audio in, and key. Power input connector also provided. Connections for 516H-1, antenna coupler, DC in, AC out are on the test set (Webpage for available connectors/cables). 34 lb. #TS-1949-U, Used \$400; #TS-1949-UN, Unused \$895.00

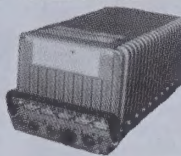
TS-1949 only, less control box, 18 lbs #TS-1949-O \$150

## ARC-51BX UHF Tx-Rx

**RT-742/ARC-51BX UHF Aircraft Transceiver**, 225-399.99 MHz AM in 3500 available channels, 50 KHz spacing; also has guard channel. Output 16 watts min. RF impedance 52 ohm input & output. Audio and mic impedance 150 ohms. Doesn't include ID-1003 SWR indicator; separate control box necessary for function & freq-selection. W/ tubes 4/ 7077 and 4/ 7544; requires 27 VDC 13 amps. 7x9.5x15.1; 35 lbs. #RT-742, Used, \$199.00



## ARC-105 HF Radio

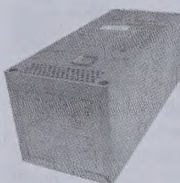


**RT-712/ARC-105 HF TRANSCEIVER**, pressurized 618T2; modules interchangeable. Covers 2 to 29.999 MHz SSB-AM-CW in 28000 channels. Front has hour meter, C and BNC connections. Separate control needed for freq-selection. Connectors not available; Requires 115VAC 400Hz 3 Phase. 10.5x 11.5x23, 70 lbs. #RT-712, Used, \$350.00

**500 KHZ IF AUDIO AMPLIFIER**, IF and Audio Module from Collins transceiver. Four stage 500KHz IF amplifier w/6 khz collins filter, AGC Detector, Low level audio amplifier. Also has 3 transistor microphone amplifier as part of its function in the transceiver. Power req. IF amp 18 VDC, Mic amp 24 VDC. w/schematic, info, power connector. #105-AA, \$37.95

**Precision RF Oscillator Module** produces 500 KHz and 100 KHz reference signals from a temperature compensated 3 Mhz crystal oscillator. Requirements were 3 Mhz +/- 2 hz, 500 KHz +/- 0.4 hz, 100 KHz +/- 0.4 hz. Operates from 18 VDC. w/schematic, info, power connector. #105-OSC, \$35

**IF TRANSLATOR MODULE FROM COLLINS ARC-105**, pressurized version of 618T HF TRANSCEIVER, IF TRANSLATOR module has LSB-USB filters F500 Z4 (526 9377) & Z5 (526 9376). This unit provides the mechanical filter used in the conversion of the PRC-47 transceiver to allow LSB operation. Removed from equipment not tested. 4.3x2.9x4.7, 4 lbs sh. #105-IF, \$70.00

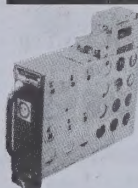


From ARC-105 115V 400Hz 3 Phase Power Supply Module produced 1500 VDC for 400 Watt PEP transceiver using 27204 tubes, and 250 VDC 70 ma. 10.3x4.3x4.8, 13 lbs sh. #105-PS400, \$30.00

**HF Power Amplifier** from ARC-105, 400 W PEP 125 W AM 2-30 mhz in 8 bands. Module has two 7204 tubes and associated output tuning circuitry. Band selection is controlled by 28 vdc motor. The grid tuning circuitry is NOT part of this module. Output inductor is tuned with 115 v 400 Hz motor. Requirements 1500 VDC, 28 VDC, 27 VAC filament, 115V 400 Hz. #PA-105, \$140



## Sonobuoy Receiver



**R-962/ARR-52A VHF RECEIVER** 162.5-173.5 MHz AM, FM and video using 31 crystal-controlled channels. Solid-state sonobuoy receiver consists of five plug-in modules; 26 MHz 1st IF, 5 MHz 2nd IF. Conversion possibilities for 2 meters, VHF weather, satellite TV, etc. (See Oct '74 CQ Mag.)

Requires external control and 18 VDC. 7.5x2.5x10, 9 lbs. #R-962, Used, \$19.95. SCHEMATIC, #SCH-R-962, \$7.00 w/ set. Manual repro for ARR-52, 52A, #MM-ARR-52, \$23.00

## 243 MHz Receiver

**Transistorized Guard Receiver** from modified RT-178/ARC-27 (5821-953-9695) UHF transceiver. One channel in 238 - 248 mhz range. IF's 25.1/3.48 Mhz. Has detector, noise limiter, AVC. 4/2N1745 transistors and 25.1 mhz filter. 8 x 4.5 x 4, 6 lbs sh. No Schematic. #ARC-27, used, \$20.00



## ARC-60 Items



**R-19 AIRCRAFT RECEIVER**, 118 to 148 MHz AM continuously tunable, but does not have dial; tuned remotely using control box with MC-215 flex spline (not available). 15 MHz IF; binding post & BNC antenna connections on front. Tubes 12A6, 14A7, 14F7, 2/14R7, 9002, 3/9003. Same as R-19; p/o AN/ARC-60 & ARC-type 12. Requires 250 VDC 60 ma & 28 VDC. 6.5x5x11.8, 15lbs. #R-508, Used \$23.00

**O-423/AR Oscillator-Relay** provides 1KHz tone for "whistle-thru" tuning of ARC-60. 3.9x5x2, 3 lbs. #O-423, Unused, \$10.00



**AT-701/ARC-60 UHF Antenna** is a quarter-wave, base fed, inverted L-type design 6" vertical x 7" horizontal x 1/4" diameter, 2 lbs sh. #AT-701, Used, \$12.00

## ARC-109 Transceiver

**RT-749/ARC-109 UHF AIRCRAFT TRANSCEIVER**, solid-state Collins unit operates on 225-399.95 MHz AM, DSB and A3 phone @ 30 watt min. 3500 available channels in 50 KHz intervals plus 243 MHz guard channel. Uses 4631 tube in P-A; 150 ohm audio/ mic impedance. C-6364 control necessary for channel select; cables & racks not available. Replaced ARC-27-34-51-52. Requires 115 V 400 Hz 3 phase. 6.8x9x16, 29 lbs. #RT-749, Used reparable, \$395.00



SCHEMATICS I/RT-749, repro, #SCH-RT-749, \$15.00 CONTROL, used, #C-6364, \$55.00 w/set purchase.

## FM Transceiver

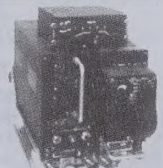


**MAGNAVOX FM-622 (RT823/ ARC-131) Airborne Transceiver**, covers 30-76 Mhz FM in 920 channels, 50 KHz steps. Output 1 watt in LO; 18 W max HI @ 29 VDC RT has Squelch Disable & Adjust, Test switch. Meter monitors +24 V-+16 V-AGC-RF FWD-RF REFL-OFF. Control box provides channel select, Volume, Squelch,

OFF-TR-RE-TRAN HOME switch. Has some modules common to RT-524/VRC-12. Requires 24-29 VDC 4 amp max. Rack & cables are N/A. 7.8x5.9x15.6, 31 lb #FM-622, Used w/control box, \$295.00

## Collins VHF Tx-Rx Set

**AN/ARC-73 AIRCRAFT RADIO SET** designed by Collins; consists of T-879 (17L-7A) transmitter, R-1123A (51X2B) receiver, C-4074 (614U) control and MT-2699 rack. T-879 covers 116 to 149.95 MHz AM in 50 KHz steps (680 channels) with 25 watt output to 133.95 MHz and 20 W min. above. Sidetone level 100 MW into 500 ohms; mic impedance 100 ohms. R-1123A covers 108 to 151.95 MHz in 50 KHz steps (720 channels). Sensitivity 3 uv; audio output 500 ohms. Both have antenna input impedance of 52 ohms and require 27 VDC (7.3 amp max transmit) power. Both utilize tubes and transistors. C-4074 control sets frequency on mechanical counter and has Volume, Squelch, and On-Off functions. Mating connector not available. Less MT-2699 mount. Operator's manual and schematics included; 9.5x8.5x16, 40 lbs. #ARC-73, used, \$189.50



TRANSMITTER only; 20 lbs #T-879, Used, \$79.50 RECEIVER only; 19 lbs sh. #R-1123A, Used, \$85.00 CONTROL BOX for frequency select, volume control, etc; w/ set purchase. #C-4074, Used, \$25.00

PLACE YOUR ORDER OVER THE WEB AT FAIRRADIO.COM



## ARC-54 Transceiver



RT-348/ARC-54 VHF Aircraft Radio Set, FM unit covers 30-69.95MHz in 800 channels with 50Hz spacing, 10W, X-mode capable, 27.5VDC at 7 Amps, Mfg by Collins. 15x5x7.7, 25 lbs sh. #RT-348, Used, \$199.50

## Test Panel

Test Panel for Wilcox 807 VHF transceiver with control box 97733-100, ITT Cannon connector for rear of Wilcox 807, test points for the following: Data Link input, 0 dbm input, mike input, data link output, receiver output, sidetone output, detector meter, detector input, scope output. Mike, sidetone, and receiver audio jacks. External squelch; on/off, control, disable. Audio on/off. PTT disable. Overall dim., 15.8x22.2x8.8, 32 lbs sh. #807-TP, Used, \$135.



Test cable with male/female connectors to extend Wilcox 807 radio from mount. Length approx 3 ft. #807-CABLE, \$35.00

Control box for Wilcox 807. #97733-100, \$59.50

Rack Cabinet only from above less the front panel, control box and cables. Has a 7" height opening and an allowance of 14" deep. Has louvered sides. The top of the cabinet opens for easy access. Has 2"Hx20"W hole along the base of the rear of the cabinet. 28 lbs. #807-RACK, Used, \$45.00

## GRC/VRC Equipment



RT-68/GRC TRANSCEIVER, 38-54.9 MHz FM continuously tunable or 100 KHz-step channels. Receives and transmits both voice and 1600 Hz ringing FM; range 10-15 miles. Receiver circuit has variable 1st IF 4.45-5.45

MHz and fixed 1.4 MHz 2nd IF; also squelch and 600 ohm audio output. Transmitter uses crystal-controlled oscillator and oscillator power amp; power output 2 watts (LO) or 15 W (HI). Also meter to monitor xmitter filaments and 90 V input. Requires PP-109 or -112 power supply. Tubes 4/1U4, 2E24, 2/1A3, 2/1L4, 4/1R5, 2/1AE4, 1S5, 4/3Q4, 3A4, 3/3A5, 2/3B4, 6AK5. 9x13x11.3, 42 lbs sh. #RT-68, USED, \$130.00 TRANSCEIVER, 20-28MHz, #RT-66, USED, \$100.00

PP-112/GRC 24 VDC SUPPLY for RT-66-67-68 transceivers; provides all voltages from 24 VDC 6.5 amp input. Case may have casting chip(s); 7.3x9 x13, 39 lbs sh. #PP-112, USED, \$32.00.



PP-109 Supply, 12 VDC 12 A input. #PP-109, Used, \$40

#CX-1211 INTERCONNECT CABLE, RT: PP units, \$14



R-108/GRC RECEIVER, 20 to 28 MHz-FM continuously tunable with variable squelch; 4.3 MHz I.F. Audio output: 600 ohms. RF input: 50 ohms. With tubes 3/1U4, 2/1L4, 1A3, 2/3A4, 1S5, 2/3Q4, 2/6AK5 & 0B2. Requires 135 VDC @ 70 MA. and 6.3 VDC 2 amps. 7.5x9x132; 32 lbs sh. #R-108, Gov't-Reconditioned, \$65

R-109 RECEIVER, same as R-108 except 27-39 MHz. #R-109, Used, \$55.00

## R-442/VRC Receiver

R-442/VRC RECEIVER 30-75.95MHZ FM RECEIVER. 920 50 KHZ CHANNELS. Has noise and tone operated squelch. Normally used with antenna system AB-15, MS 116, 117, 118. Power connections through MT-1898 mount and DC power cable, CX-4720 which are included. 13.5, x 5.8 x 8.9, 31 lb sh. #R-442, Used Repairable \$300.00



## Vintage Radios !!!

VINTAGE RADIO LINE ITEMS see our website [www.fairradio.com/Vintage.htm](http://www.fairradio.com/Vintage.htm) for current stock. At time of printing we had these items in stock. All items are used not checked.

ARC-1 VHF Transceiver \$115.00

BC-433 Compass Receiver \$170.00

R-5/ARN-7 Compass Receiver \$170.00

BC-375 / BC191 Tuning units - email us

RT-82 / APX-6 IFF Transceiver 800 - 1300 Mhz \$100.

RT-178/ARC-27 UHF Transceiver w/ control box, \$145

C-847 VRC19 Speaker/Control \$35.00

## USB Receiver-Exciter



RT-662/GRC-106 TRANSCEIVER, 2 to 29.999 Mhz USB-AM-CW-FSK; tunes using 5-decade mechanical

switches to 1 KHz steps + vernier. Exciter output 100 MW. Controls: Service Selector, PA Load, Squelch, Noise Blanker, BFO and audio functions. LESS Signal Level meter. Requires 24 VDC 10 amp; 7x18x13, 56 lb sh.

#RT-662-UR, Used Repair. not tested/LESS meter, \$300

#RT-662-CH, "Checked" w/ meter (not original), \$500

RT-834/GRC-106A, similar to RT-662 above but 2-29.9999 MHz, 0.1 KHz increments. Used:

#RT-834-UR, Repairable no meter, \$350.00

#RT-834-CH, Checked with sub meter, \$550.00

GRC-106 MODULES for RT-662 and RT-834, most modules available except 1A3 Freq-Standard removed from "used" radios. 2 lbs sh.

Price: UNTESTED, \$20 ea. Add \$20 per module for "CHECKED" modules. #MOD-(specify module #-) (specify RT #-) (untested "UNT" checked "CH")

AM-3349/GRC-106 POWER AMP for RT-662/834; amplifies 100 MW RT output to 200 W AM or 400 W PEP. Uses two 4CX350FJ tubes. Requires 28 VDC 1 KW max; 77 lb



#AM-3349-UR, Used Repairable w/ original meters, \$850

#AM-3349-AI, Used As-Is, less meters, \$450.

Manual, partial repro GRC-106/106A, #MM-GRC-106, \$45 Operator's Manual, GRC-106/106A, #OM-GRC-106, \$15 HANDSET, #H-33, used-checked, \$22.95

MIC, #M-29B, used, \$14. Headset, #H-227, \$20.00

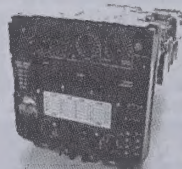
MOUNT & SIDE PLATES, 25 lb. #MT-3140, Used, \$40.

INTERCONNECT CABLE, #CX-10099, used, \$23.00

ANTENNA CABLE, 4 lbs. #CX-10171, Used, \$25.00

TELETYPEWRITER, 100 lbs. #UGC-74, Used, \$95

## TRC-68 Transceiver



RT-441B/TRC-68 Transceiver 225-400 Mhz AM. 1960's vintage transceiver, basically same as RT-323/VRC-24, rated 16 watts minimum 225 to 400 Mhz. As pictured, no case, no dynamotor/power supply. Voltages required 26.4vdc 125 vdc 300 vdc. Utilizes the following tubes. 7/5670 10/5654 6442 4x150d 7554 6/6j4 6/5670 4/ 5763. 15.2 x 9.5 x 10.2, 47 lb sh.

#RT-441, Excellent condition \$200.00

Manual Repro, #MM-TRC-68, \$40.00

#MT-1436 Terminal Box less cover. Unused, \$20.00

## 2-12 MHz USB 100 Watt



RT-671/PRC-47 HF TRANSCEIVER, 2 to 11.999 MHz USB (voice and CW+800 Hz) in 1 KHz steps. Output 100 watts PEP (HI) or 20 W

(Lo). FSK possible with accessory converter (not available). Transistorized except for PL-177WA tube in power amp and 5907, 7761, and 7905. Has 5-place mechanical digital tuning, P-A Load and Tune controls, and XMTR Output Meter. Designed for field or vehicular use; operates from either 24 VDC 20 amps or 115V 400 Hz. 7x21.3x13.5, 45 lbs.

#RT-671-UR, Used, \$175.00

#RT-671-CH, Used Checked, \$350.00

MANUAL for PRC-47, partial repro, #MM-PRC-47, \$30 LONG-WIRE ANTENNA, 3 lbs., #AS-1321, \$23.00

HANDSET, #H-33, used-checked, \$22.95

"V" CABLE for H-233 to RT, #CX-8396, \$12.00

Battery Cable, #CX-8395, \$14.00

BACKPACK FRAME only w/ harness, #PRC-47-BF \$15.00

ALUMINUM TRANSIT CASE, 65 lb #CY-3700, \$56.00

TUBE USED STT, #PL-177WA, \$30.00

MODULES from PRC-47 transceiver. Used not tested:

AUDIO AMP has mic, sidetone, vox & compressor circuits of TX; AGC & audio for Rx. Requires 20 & 24 VDC. 4.3x4.3x2.8, 2 lbs. #AM-3506, \$17.00



AMPLIFIER MODULATOR contains LSB 500 KHz mech filter F500-Z5 (#526-9376) plus balanced modulator and product detector. Requires 20 VDC; 4.3x4.5x1.3, 1 lb. #AM-3507, \$40.00

Connector set. #AM-3507-CON, \$7.00

CONTROL OSCILLATOR, 3 lbs. #C-4311, \$30.00

SIGNAL DATA TRANSLATOR with tubes 5907, 7761, 7905; 5 lbs sh. #CV-1377, \$46.00

RF OSCILLATOR contains 3 MHz crystal in oven; produces 500 and 100 KHz outputs. Requires 20 VDC; 4.3x4.5x1.3, 1 lb sh. #O-1032, \$23.00

POWER SUPPLY, 16 lbs sh., #PP-3518, \$29.95

## PRC-41 Manpack



RT-695/PRC-41 UHF MANPACK UHF TRANSCEIVER, 225 to 400 MHz AM in 100 KHz steps counter; output at least 3 watts over range. Also has guard channel, Volume, Squelch, and U-77 connection for H-33 handset. Solid-state except for tubes

6442, 4/7077, and 4/7544. Requires 24 VDC 3 amps; 14x11.3x4.5, 22 lb. #RT-695, Used, \$169.50

Used Checked, #RT-695-CH, \$345.00

Manual for PRC-41, partial repro, #MM-PRC-41, \$23

HANDSET, #H-33, used-checked, \$22.95

VEHICLE MOUNT for PP-3700, 4lb., #MT-2977, \$11

## Eastern Block Radio

The Russian Tube Type Radio R-105M was intended for use by infantry units. Operating in one continuous band on 36-46.1mc, with an intended channel spacing of 25 or 50kc. RF power output is rated at 1 watt, FM. Power is derived from two internal Nicad batteries. Durable bakelite housing. Removeable front and back covers. With accessories. 12.3x5.5x11.7, 23 lbs. #R-105M, Used, \$295.00



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## PRC-25/77 Backpack Radio



RT-505B/PRC-25 TRANSISTORIZED BACKPACK TRANSCEIVER, 30-75.95 MHz FM in bands 30-52.95 MHz (Lo) and 53-75.95 MHz (Hi) with 50 KHz spacing.

Output: 1.1 to 2.0 watts; 150 Hz squelch.

Transistorized except 2D4 tube in power amp.

Requires 3 VDC 400 ma and 15VDC 1.4 amp supplied by BA-4386 battery. RT-505B has modified A25 audio module for broadband use with C-7673/PCC-1 and CU-2194 diplexer. 4x11x14, 18 lb #RT-505B, Used, \$350 RT-841/PRC-77, Similar to above, #RT-841, \$625.00

Manual for PRC-25, partial repro. #MM-PRC-25, \$23.00 Manual for PRC-77, partial repro. #MM-PRC-77, \$23.00 Backpack Harness. #ST-138, Used Excellent, \$40.00 RIBBON ANTENNA, #AT-892, used, WRITE BATTERY f/ PRC-25-77, "weak" #BA-4386, 3/\$6.00 BATTERY, 1995 X-date (no UPS or air), #BA-5598, \$7.00 ACCESSORY BAG, used, #CW-503, \$8.00 HANDSET or = for PRC-77/25, #H-250, Used, \$23.00 Original Op's Manual f/ VRC-53 (PRC-77 & AM-2060) #MM-VRC-53, \$23.00

AN/GRM-55 TEST SET, used to check test points in modules of RT-505/PRC-25 transceiver and to isolate circuit problems.

(Indirect tests only of modules A2, A12-13, A19-20.) Includes TS-1755 test unit, MX-4622 probe, and CG-409 BNC cable. Requires 12.5 VDC 1 W per 5 sec test. 5.5x7x8, 10 lbs sh. #GRM-55, Used, \$55.00 As above except w/ test cable CX-8593, \$75.00

## 6 Meter Diplexer



CU-2194/URC DIPLEXER, passive two-port notch filter and combiner network; allows simultaneous use of two transmitters, receivers,

or transceiver on a common antenna provided that operating frequencies are slightly offset. Usable over 30-76 MHz FM for use with PRC-25-77 & VRC-12 transceivers; will work with commercial 6-meter equip. Has NULL METER, TUNE controls, Fine-Coarse-Monitor MODE Switch and RT1-RT2 BNC connections. Unit may function as man-portable relay terminal. Maximum RF power to each channel: 65 watts cont. Operational isolation: 45 DB min @ 2 MHz separation. Insertion loss: 2 DB max; VSWR 2.0:1 max. 4x11x7, 10 lbs. #CU-2194, Used, \$45.00; #MM-CU-2194, Original Manual, \$14.00

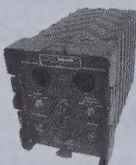
## PRC-75 Radio

RT-976A/PRC-75 UHF TRANSCEIVER, rugged handheld ground-to-air tactical synthesized radio covers 225 to 399.95 MHz AM-CW in 50 KHz steps (3500 channels). Power output >1 watt. Has three thumb operated dials to set frequency; design frequency accuracy 1 part / 100000. Also has 1000 Hz audio beacon-DF tone. RF input 50 ohms; audio output 600 ohms. Requires 18-30 VDC from battery pack (not supplied); no accessories; 1.6x4.3 x8, 6 lbs. Look nice, complete but not working. #RT-976A, Not repairable "As-Is, \$85.00

ANTENNA ADAPTER, allows for BNC coax antenna connection. #UG-1884, New, \$12.00

## CV-278 Freq Shift Converter

CV-278/GR Frequency Shift Converter for the R-392 HF Receiver. Converts frequency shift signals to neutral or polar marking or spacing DC impulses. 450-500 KHz input, 20/60 ma or polar output for tele-typewriter. Uses tubes 8/26A6, 2/26A7. 9.1x13.8x7.3, 22 lbs sh. Less meters & knobs. #CV-278, Used, \$30.00



## PRC-6 Handheld



RT-196/PRC-6 FM TRANSCEIVER, Israeli 1950's vintage single-channel crystal-controlled in 47 to 55.4 MHz range. Output good to about 1 mile depending on terrain and weather conditions. Handheld unit has push-to-talk switch, Volume Control, ribbon antenna, carrying strap and connection for H-33 handset. Uses CR-23 crystal (not included). With tubes 6/ 5678, 3B4, 3/5672, 2/5676 and 2G21. Requires 1.5, 45 and 90 VDC usually supplied by BA-270 battery (not available). 15x5x4.5, 6 lbs, #PRC-6, Used, \$120.00

Original Manual for PRC-6, #MM-PRC-6, \$12.00

Crystals for PRC-6, #PRC-6-CR-( freq. ), 51.0 to 54.0MHz Radio Frequency, \$22.00 ea All others frequencies are \$12.00 ea

## PRR-9/PRT-4 Radios

Specify 1st, 2nd and 3rd choices of desired frequency. GOV'T-RECONDITIONED each single channel with crystal for 51 Mhz FM: PRR-9 RECEIVER with earphone, antenna, & operator manual. Requires 5 V 25 ma battery power; 7x3.5x1.5, 3 lb. #PRR-9-GR, \$50.00

Manual repro for PRR-9/PRT-4A, #MM-PRR-9, \$18.00

Horn speaker for PRR-9. #PRR-9-HO, Unused, \$6

AN/PRT-4 w/ antenna & battery box, Used less crystal, #PRT-4, \$23.00

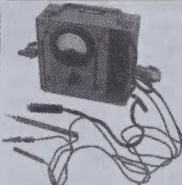
AN/PRT-4 "AS-IS", less crystal, antenna, & battery box; for parts or experiment, #PRT-4-AI \$10.

## PRC-90 TEST SET

AN/PRM-32A RADIO TEST SET for AN/ PRC-90 UHF & PRC-106 VHF survival radios. Requires one radio as receiver and another as transmitter. Tests 243 MHz frequency for beacon, transmitter MCW-voice and receiver outputs. Also Tx-Rx voice outputs for 282.8 MHz (PRC-90) and 121.5 MHz (PRC-106), earphone & battery test. Has 1.8" square meter with Red-Green scale, TX-Rx connector adapters for hook-up & operator's info. 3x 5x4, 3 lbs. #PRM-32, Used, \$32.95 Manual repro, #MM-PRM-32, \$10.00



## ARC-34 Test Set



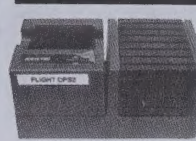
AN/URM-76A Radio Test Set for ARC-34 radio can be used as a DC voltmeter with the following DC voltage ranges: 1.5, 5, 15, 50, 150, 500. Uses 3.5 inch 50 micro amp DC meter. Case containing meter, 1% precision resistors, 20 position test switch, probes, aluminum case with cover. The unit can be easily modified for other test uses. 4.3x8x7.5, 8 lbs sh. #URM-76, Used good condition w/ schematic, \$21.95

## Military Battery Tester

TS-183 Battery Tester. Checks a large number of different military batteries for radios such as PRC-6, PRC-10, PRC-25, BC-620/659, GRC-9, and many many more. For a complete listing of the batteries see our website at [www.fairradio.com/ts-183.htm](http://www.fairradio.com/ts-183.htm). 10.2x15.3x7.4, 18 lbs sh. #TS-183-U, Used, \$35.00 #TS-183-GR, Gov't Recon., \$59.95



## PRC-127 Battery Charger

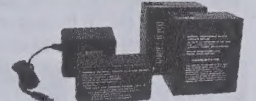


Ni-Cd Battery Charger for the PRC-127 radio. Once the charging function is complete, the unit will automatically switch to a trickle rate to maintain the charge without overheating the battery pack.

Has indicator lights for charge in progress and fully charged. Input power 15W. Slow charge rate 60 mA - 140 mA. Fast charge rate 700 mA - 1100 mA. Requires 115/230VAC 50/60Hz. 6.8x3.3x3.4, 6 lbs sh. #CHARG-127, Used, \$35.00

## BB-490 Battery/Charger

Lead Acid Battery Pack with Charger, consists of two BB-490 military batteries each rated 24VDC (2x12 VDC) 1.8 Amp-Hrs @ 0.35 amps; AM5-H6 charger fits on top of BB-490 or similar batteries and shows "charging" and "ready" on LED indicators. MPS-CH2 charger power supply output 16VDC 1.5 A from 115V 60 Hz input. BB-490 used in PRC-104, etc. radios; 4.3 x 5 x 2.5. Kit 9 lbs sh. #BB-490, Unused, \$20.00; 3 for \$50.00



## Military Batteries

BA-5598 LITHIUM BATTERY for RT841/ PRC-77 radio; output 12.5 VDC. Two BA's fit RT battery box. Has discharge switch to make non-reactive after final use; 1995 expire date. Class 9 hazardous item; USPS Shipping ONLY. 3.5x4.8x2.1, 2 lbs sh. #BA-5598, Unused, \$7.00

Rechargeable Nickel Cadmium Battery for PRC-68/68B/ 126/128 radios. 15 Volts 0.80 AH at 0.16 A. Date Code: 11/89. 1.5 x 4.3 x 4, 3 lbs. #406870-1, Unused, \$37.50



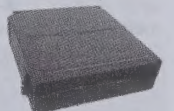
Military Nickel-Cadmium Battery Pack, four D-cell batteries in plastic pack produces 4.8 V 3.2 amp-Hr; 3/80 date code. 3.5x5.5x1.5, 3 lbs. #4D2704, 5 for \$10.00

BA-48 Battery for GRC-9 Receiver section. +90V & 1.5V. Date code is 0486. No stains. 8 lbs sh. All check weak! #BA-48, \$6.00

## Battery Boxes

CY-7541/PRC-104 BATTERY BOX, plastic box clips onto PRC-104 backpack radio set and will hold 16 silver-zinc (or =) batteries that provide 20-32 VDC. Side unscrews to insert batteries; 3.8x12.5x2.6, 4 lbs. #CY-7541, unused, \$22.00

CY-744 Battery Box for the PRC-10 backpack radio. 9.4x9.7x2.5, 4 lbs sh., #CY-744-U, Used, \$35.00



AA-BATTERY BOX for Trimble Navigation Trimpack GPS receiver. Clips onto & allows operation of GPS from 8 - AA batteries (not included). 1.6x 6.5x1.5; 1 lb. #GPS-13828-00, NEW, \$25.00

## GRC/PRC Battery Test

AN/PSM-13 BATTERY TEST SET; checks GRC and PRC-type battery packs BA-270, -279, -376, -377, -4386/ 398/ PRC-25, -399, and -505. Meter indicates BAD-GOOD (FS=1 MA). With adapters U-240, -241, -314, -315, -347, -410 & canvas case. 7 lbs. #PSM-13, Used excellent, \$28.00



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## GRC-109 Supply



PP-2684/GRC-109 POWER SUPPLY provides voltages for RT-3/T-784 and R-1004/RR-2 from 75-260 VAC 40-400 Hz or 6 VDC 13 amp input. Meter monitors AC input; connections for RX and Tx. 10x8.5x5.5, 28 lbs sh.

#PP-2684, Used, \$35.00

PP-2684A, Similar to above except larger case with snap closures. #PP-2684A, Used, \$37.00

Manual for GRC-109, partial repro, #MM-GRC-109,\$23

VOLTAGE REGULATOR, for use with G-43 generator and R-1004; 6 ft cord with PL-244 plug; 4 lbs sh. #CN-690, Used, \$35.00

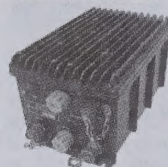
## GRC-213 Amp / Supply

AM-7152/GRC-213 Amplifier / Power Supply / Squelch unit. The unit increases audio output and provides squelch circuitry for the AN/PRC-104, which the transceiver does not itself incorporate. It also provides DC power for the PRC-104. The AM-7152 may be used with the RT-1209/PRC-104 to provide audio and squelch without the entire GRC-213 set, or with any other HF/SSB transceiver that does not have squelch capability of its own such as the AN/PRC-74 or AN/PRC-47 sets. Requires 24VDC. 10x12.5x3.5, 14 lbs sh.

#AM-7152, Used, \$265.00



## PRC-41 Power Amp



PRC-41 UHF Power Amp AM-6669 RF Power Amplifier, designed for use with PRC-41 transceiver, but usable with other 225-400MHz xmitters such as PRC-66, ARC-45, etc. Power output: 10 watts from 2-3 W input; "N" connections

Solid-state; 24 VDC required. 5.3x6x9.8, 10 lbs sh. #AM-6669, Used, \$285

## 600W Power Meter

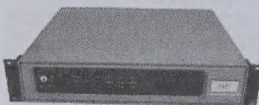
ME-165/G STANDING WAVE-RATIO POWER METER, designed for use with T-368 400 W transmitter; uses 12/ 600 ohm 50 W non-inductive resistors in parallel to provide 52 ohm 600 W load with SWR of 1.1:1 or less upto 30 MHz. Has 0-600 Watt meter, function switch Power-Adjust-SWR-Operate, & N connections. Flanged on back for wall mount. 1.5x9.8x9.8, 20 lbs.

#ME-165, Gov't-Recon, \$150.00

Manual repro, #MM-ME-165, \$12.00



## HF Radio Modem



Thrane & Thrane TT-1185 Radio Telex Modem. Mark / Space frequencies adjustable from 1KHz to 3 KHz. Phase continuous AFSK Keying. RS-410 type N Radio Control. Power input 90 to 240 VAC 50 - 400 hz, 20VA. 15.5x19x3.5, 16 lbs sh.

#TT-1185, Used excellent, \$75.00

## BC-1000 Accessories



Dummy Antenna module. Used for adjusting and testing the BC-1000 transmitter output. Has a light indicator to show optimum setting. #A-28, Unused, \$10

ID tag for BC-1000. New Reproduction, #ID-1000, \$20

Decal set for BC-1000. New Repro, #DCL-1000, \$30

Impedance Matching Antenna Adapter. Adapts the BC-1000 to a coax cable. Used, #TM-217, \$7.50



## ARC Type Connectors



Hard to find ARC connectors for the WW2 Command Sets and later ARC Type 12 Radio Sets. Some of these connectors can be used as is. Some need to have guides filed off. Much information is in the Tauson book, "A Users Guide to Aircraft Radio Corporation Receivers." Also see the ARC connector catalog reproduction. Connectors are unused unless marked Used. "M" designates Male and "F" female.

ARC #	pins	m/f	Works with	Price
16743	12	f	CV431	\$17
14320	19	f	C25 Control	\$14
12370	2	f	TYPE 12 15 Power	\$12
12427	2	m	Chassis Type 12 Rec 15 Rack	\$12
14052	4	f	T11 13 Power	\$17
12337	4	f		\$12
16104	4	f		\$14
12338	8	f	15 & Command Racks w/ Mod.	\$17
15912	8	f	Modulator Command Rack	\$17
14050	8	f	T11,13 Mod f/ Command Racks	\$17
12097	8	m	Chassis type	\$12
PL-151	6	f	Modulator and Receiver Rack	\$17

A User's Guide to ARC Corp Receivers - by M. Tauson; ARC-5, ARC-type 12 etc, #BK-USER5, \$12

ARC Connector Catalog repro, #CAT-ARC, \$6.00 each

## Vintage Connectors

PL-58	EE-8	\$7.50
U-31	EE-8	\$6.50
PL-59	BC-191 / 375	\$14
PL-64	BC-191 / 375	\$21
PL-134	RU-18	\$17
PL-164 2 f	SCR-522	\$14
PL-167 4 f	SCR-522	\$14
PL-169 12 f	SCR-522	\$14
PL-171 6 f	SCR-522	\$14
PL-172 2 f	SCR-522	\$14

Three pin connector pair. MS3114E8-3S chassis male and MS3116P8-3P cable female connector pair for audio or low current voltage use. Wire can be easily soldered to the gold plated pins. These connectors lock together with a half turn cam action. They will not come apart from vibration. Excellent for use in vehicles and high vibration applications. Removed from unused equipment. #3PIN-PR, \$18.00 per set

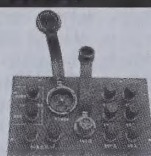


GRC/VRC male connectors, specify type & equipment used. #CON-(equip)-(strain="st" crimp="ct") Used-cut-offs: Strain type, \$12 each; Crimp type, \$6

Audio Connectors: #U-77, \$5; #U-79, \$10; #U-229,\$6

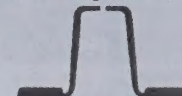
## Terminal Panel

Military Terminal Panel with ten heavy duty push terminals with insulation and 5 pin military audio connector U-183/U that mates with the U-229 as used on many military radios. Also has 4 pin male power connector MW20M(M)A00 M55181/2-01. The two connectors have rubber protective covers to resist moisture and dirt. 1.9x6.6x4, 3 lbs. #TP-10, Removed from unused equipment. \$19.95



## GRC-9 Accessories

Leg and seat for GN-58. #LG-2B, Gov. Recond, \$55  
LG-3B Leg for GN-58. Used, PRICE PER LEG \$45.00



Crank handles for GN-58 generator. #GC-7, Used, \$40.00 per pair

Mating power connector for BC-223, #PL-149, \$21.

Antenna Base. 2 lbs sh. #IN-127, Used, \$35.00

Bracket attaches IN-127 base to RT-77 radio, French made #FT-515-FR, Used, \$6.00

As above but made in the U.S.A, #FT-515-US, \$10

Vehicular Mount for RT-77, #MT-350, Used, \$25.00

Cover for RT-77/GRC-9, #CW-140, Used, \$18.00

Long Wire Antenna "As-Is", may have wire breaks: #AT-101, 4.3-12MHz, \$16; #AT-102, 2-4.3MHz, \$18

#MM-GRC-9, Original Manual for GRC-9, \$18.00

## Radio Cables

CX-4721 Extension Cable for DC power 5ft. Unused,\$17

CX-4722 VRC Control Cable, 15 feet, \$18.00

CX-4723 VRC Control Cable, 4 foot, \$14.50

CX-7059 Cable C-2742 to RT-246, Unused, \$22.00

CX-7867 AUDIO CABLE, 25' U-229 /-228, \$12.00

CX-11016 2/19 pin male connectors 6 ft. Unused, \$12.

CX-12991 KY-57 to PRC-77 CRYPTO cable NSN 5995-01-058-2513. Used, \$14.00

CX-13089 Vehicular power cable for use with MX-7777 or vehicles with 3 pin power sockets. 5 ft 4 conductor #14. Unused, \$12.00

Vehicular power socket 3 pin female to mate with CX-13089 cable. #CONN-13089, Unused, \$14.00

Vehicular power cable for use with MX-7777 or vehicles with 3 pin power sockets. 5995-01-119-9271 4 conductor #14 12ft. Same connectors and pinout as CX-13089. #CBL-13089-2, Unused, \$17.00

#CX-13134/U DC power cable 3 pin connector fits MX7777, Crown CC229935-2P, and 4 pin PTo6E-8-4S. Unused, \$14.00

#CX-13143 6 Ft DC power Cable for the AM-4979 and AM-6747 amplified speakers. Unused, \$14.00

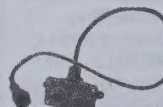
#CX-13306/VRC Sincgars Power Cable 2 ft, \$18.00

Crypto Cable RT-1209 PRC-104 to KY-99. 2 feet. #CBL-104, Used, \$20.00

#SM-D-915890 Battery back up cable for UGC-74 MS3116E-12-3S, other end fits the batteries used with PRC-25/77. Unused, \$17.00

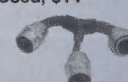


U-77 to U-229 Coiled Audio Cable. 8 foot long stretched. #SM-D-875498, Unused, \$17.00



Adapter, 33" cable with a U-77 audio connector on one end and two U-79 connectors (mates to U-77) mounted on a panel box on the other end. #J-654, Used, \$14

Vehicular DC power splitter. One male connector & 2 female connectors. #CBL-VEH, Unused, \$30.00



## Spanner Wrench



Spanner Wrench for Military GRC Connectors. Fits the retainer ring on the GRC and VRC connectors. Makes it much easier to take those connectors apart. Set contains the following sizes: 0.6", 1.25", 1.45", 1.6", 1.85". 1 lb sh. #SPAN-GRC, Rusty needs cleaned. \$16.95

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## Radio Mounts



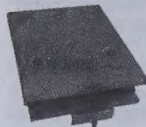
MT-1029/RC Vehicular Mount for RT-246 & RT-524/RC -12 transceivers. 5x12.5x16, 19 lbs. #MT-1029-U, Used, \$35.00; #MT-1029-GR, Gov't-Recond., \$60

MT-1898/RC Mount for companion R-442 receiver 5x6x12.3, 15 lbs.

#MT-1898-U, Used, \$30; #MT-1898-GR, Recond., \$38

ARC-164 MOUNT, retrofit ARC-164 into ARC-34 mount. Rear rack connector & front plug for ARC-164. 5x13.8x11, 11 lbs. #MT-6147, Used, \$30.00

MT-300 Mount serves as support for the RT-70/AM-65 radio system and as a junction box for interconnecting the RT-70 and interphone amp with control box C-375 (page 9). Also, inter-connects the vehicular power source and the power supply within the amp. 13x8.3x3.1, 13 lbs. #MT-300, Used poor, \$75



Robinson Aviation shock mount 848-2. Looks like its good for about 5 pounds. For base 5.5 x 7.5 inches with screw clamp on front. 2 lbs sh. #848-2, Used, \$12

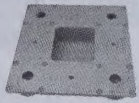
TCS Transmitter / Receiver shock mount. Shockmounts are not original, but look correct.

#MT-TCS-4, 4 shock mt, \$40  
#MT-TCS-6, 6 shock mt, \$45



MT-4658 Mount for ARC-159. 3 lbs sh. #MT-4658, Used, \$23.00

FT-161 Mount for BC-357 Beacon Receiver, 3 lbs sh.  
#FT-161, Unused, \$10.00



MT-759 Mount for AM-598. Less canvas strap.  
#MT-759, Used, \$18.00

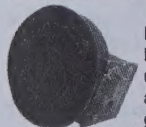
MT-6378 / GRC-193 Mount for CU-2064 Antenna Tuner. This mount has the base for the antenna.  
#MT-6378, Unused but hasn't been in packaging for a while. \$170



MT-6233 / GRC193 mount for AM-65445, CU-2064, AM-6879.  
#MT-6233, Unused, \$275.00

## AIC-10 Intercom System

RE-94 / AIC-10 Interphone Control includes AM476 solid state audio amplifier, call button, volume control. 27VDC required w/schematic. 5.6x3.6 x3.6, 4 lbs. #RE-94, Used, \$16.95



LS-184/AIC-10 Aircraft Dynamic Loudspeaker with AM-492 amplifier, usually used in the fuselage of larger aircraft and in the wheel well for ground crew communication. Power required 28 VDC and 170 VDC for 4/5718 or equal tubes. 7.3x8.2x4.2, 6 lbs sh. #LS-184, Used, \$29.95  
7 pin connector for above, #7P-LS184, \$21.00

TM11-5831-200-35 Field and Depot Maintenance Manual Intercommunication Set, AN/AIC-10 Covers C-823, C-824, C-825, AM-476, AM-476A, DY-77, DY-76, RE-94, LS-184, AM-492. #MM-AIC-10, Repro, \$40.00

## Field Phone Wire



1250 feet on a DR-8 reel of Field Telephone Wire WD-1A/TT twin lead zip cord style black vinyl-covered steel wire. Intended for use with EE-8, TA-43, TA-312 and similar field phones. 14 lbs sh. #DR8-WD1A, Used, \$89.50

100 feet of WD-1A wire less spool, #WD-1A-100, \$14  
500 feet of WD-1A wire less spool, #WD-1A-500, \$52

WF-16 Four Conductor Stranded Field Phone Wire. Two pairs of what looks like small zip cord twisted together. One is brown and the other is gray. Has splices and may need spliced. Less reel.

100 feet, #WF-16-100, \$23.00  
500 feet, #WF-16-500, \$85.00  
1000 feet, #WF-16-1000, \$148.00

## Patch Panel

SB-3189 Audio Communications Patch Panel. Normal 1/4 inch phone fits 52 pairs ADC jacks. Jacks are spaced for double phone plug.

Each jack 2 normally closed and one SPDT. Some panels are red, some are black. 17.5x19x7, 31 lbs sh. #SB-3189, Used good condition, \$169.50



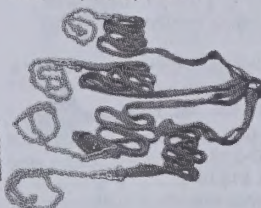
## Canvas Bags & Covers

BAGS & COVERS may be used or unused. May have minor wear, tears or discolor:

SHOULDER BAGS with adjustable straps; Used:  
#BG-175, 10x8x10.5, \$18.00  
#CW-189, 10x9x10, \$12.00

GRC/VRC EQUIPMENT COVER  
#CW-140 for GRC-9, Used, \$18.00  
#CW-329 for GRC-3-8, Unused, \$16.00

ANTENNA ROLL BAGS 1/ MS-116 etc mast sections,  
#CW-206-U, Used, \$7.; #CW-206-UN, Unused, \$18.  
#BG-174, Used, \$18.00

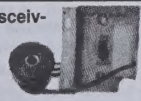


Cargo Sling-Heavy Duty Tow Straps. This item is a 15,000 pound cargo sling and consists of four sections, each is constructed of four 15 feet seatbelt type OD nylon straps which are looped on one end with an 76 inch chain and catch arrangement on the other. The loop ends are all joined together by a large loop of webbing. This loop can be removed to separate the four individual straps for use as tow straps or whatever. #CS15K-SLING, 105 lbs sh. Unused, \$79.50

Single strap from above w/ chain and catch,  
#CS-STRAP, 25 lbs sh. \$30.00

## BC-620 / 659 Accessories

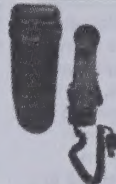
ALIGNMENT ADAPTER for BC-659 transceiver; allows changing of crystals and alignment of the set without the use of an external meter. Mounts inside the BC-659. 2 lbs sh. #M-399 \$6.50  
Adapter 1/ BC-620, #M-394, \$6.50



ALIGNMENT TOOLS for BC-620/659:  
#TL-150 or #TL-207, \$6.50

RIGHT ANGLE, #MC-136, \$6.00  
T adapter for MC-124, #MC-203, \$9.50  
MC-127 Spin Tuning Knob for spline ARN-6 & BC-229, #MC-127, \$9.50

## TA-1 Phone

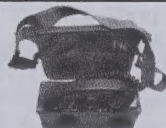


TA-1/PT Telephone, sound-powered unit requires 2 conductor field phone wire connected to another TA-1 for communication without batteries. Palm-operated generator provides approx 100V to "buzz" signal another phone; also visual indicator. Has coil cord with push terminals for wire hook-up and plastic carrying case. 8.5x3.5x3.5, 4 lbs sh.

#TA-1, Used Checked, \$55.00 each; 2 for \$89.50

## TA-312 Field Phone

TA-312 FIELD TELEPHONE rugged light-weight unit replaces famous EE-8 field phone and is usable with them. Includes G-42 crank generator, B23 clacker call signaler, H-60 handset, and canvas carrying bag w/ strap. Requires 2 D-cell batteries (not supplied.) 12x7x4, 12 lbs.



#TA-312, USED-CHECKED, \$110.00  
Manual for TA-312, partial repro, #MM-TA-312, \$14.

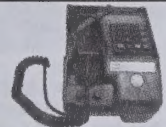
## TA-341 Phone



TA-341/TT TELEPHONE SET push-button 4-wire unit for use with tactical switches using four C-cell batteries; usable in conventional point-to-point telephone line (plug may need changed) Range >3.2 km. Signal out 900-3400 Hz digital tone; 90 V 20 Hz signal in. W/case; 4.5x10.5x10.5, 10 lbs. sh. #TA-341, Used, \$25.00

## TA-954 Phone

TA-954/TT NON-SECURE DIGITAL VOICE TERMINAL used in Tri-Tac comm-system: 4-wire set xmits and receives diphasic modulated digital voice and loop signaling info at 16K or 32K bits. 125 ohm line impedance 125 ohms; range 4 km using WF-16 field (no stock). Requires 24-56 VDC, Tone pad has characters 0-9, FO-F-I-P-R-O-C; also Volume L-H Ring - Receive & H-350 handset. Plastic case is EM/EMC static protected. 7.3x4.5x10, 8 lb sh.  
#TA-954-GR, Government Reconditioned, \$125.00



## Hydrogen Generator

M315B HYDROGEN GENERATOR, used to provide hydrogen for 4' balloon p/o CRT-3 Gibson Girl rescue radio. Has 1200 grs of calcium hydride crystals in long can which, when immersed in water, produces hydrogen gas. (EXTREME CAUTION must be exercised in the performance of this process because hydrogen gas is dangerously flammable and the liquid calcium by-product is very caustic!) Cans are dented; suitable only for recovery of calcium hydride. 11.6"L x4.3" dia, 4 lbs. #M315B, Unused-dented, \$10.95



## Box Kite



Kite is also used for lifting wire antenna; has 15"Wx12"H distress orange plastic poly-vinyl panels on metal frame. Stands overall 36"H x 15" square; sturdy frame can be re-covered with silk or similar light fabric. Some plastic sticks together - includes panel repair kit; 3 lbs sh. #SEB-42ABK, Unused, \$28.00

## Antenna Tether Wire

306 FOOT SPOOL of vinyl-covered braided #22-size intended for use with above; usable on the ground as long-wire antenna also. On spool; 3 lbs. sh. #SEB-400X3, unused, \$14.95



CHECK OUT OUR LATEST FEATURE ITEMS AT FAIRRADIO.COM



## Mast Kits



29.6 foot Mast Kit comes with eight 1.8" diameter sturdy fiberglass mast sections, two high quality plastic guy rings, 300 feet of rope (cut according to your need), three guy stakes, insulator, and weather proof bag. 55 lbs.

#ANT-KIT-29-U, Used, \$159.50  
#ANT-KIT-29-UN, Unused, \$199.50

12 foot Military Mast Kit. Comes with: three 47" long x 1 3/8" fiberglass mast sections, one 8"



top mast section which holds two horizontal aerial antennas and also has 16 feet of RG-58 coax with a male BNC connection at the end, two 28" antenna elements that thread to the top section, one guy ring with guy rope, three 9" stainless steel stakes, one 27" long mast base which mounts directly into the ground, and O.D. green carrying bag with handle. There is no indication of a model number on the assembly. Excellent for field day or other portable antenna use. 12 lbs sh. Unused, #MK-12, \$55.50 ea As above except with Ground Plane Antenna. #GPA-MK-12, Used, \$49.50 Mast Section only, #MS-MK-12, Used, \$12.00 each



**HEAVY DUTY NYLON BAG**, ideal for mast kits along with MANY other

applications! High quality Cordura Nylon is coated for water repellency, rot and is mildew resistant. Bag has 1 1/2" web handles that wraps around bag for added strength. Two zipper slides for easy opening. Overall size: 44" long x 9" deep x 7" tall. 3 lbs sh. Comes in OD Green. #BG-1244, New, \$39.50 each; 3 / \$99.50

## Mount Brackets

**BRACKET** for mounting 2" dia antenna bases like AB-15 to vehicles or other flat surfaces. Mount plate 6.3"W x 4"H; base hole center extends 3.9" from plate. 4 lbs. #SM-B114371, Unused, \$15.00



**Angle Bracket** for attaching MP-50 or similar mount bracket to corner of vehicle. Bolts for MP-50 and drilled for side mount; 5 lbs sh. #SCC-28591, Unused, \$13.00

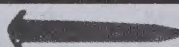
## Guy Ropes

MX-516 Halyard, 140' nylon rope, insulator & pulley Used with AB-155 & AS-244. Used, \$14.00

GUY ROPE SET, 3x20' lengths, #GY-12/42, Used, \$9

ROPE, 80', #M378, \$7.00; 10', #M379, \$4.00

## 12" Guy Stake



12" Aluminum Guy Stake. Has 1/4" diameter hole near top of stake. #GS-12,

Used, \$3.00; 5 / \$10.00

## Mast Sections

MS-50  
MS-51  
MS-52  
MS-53  
MS-54

**3-FOOT MAST SECTIONS** (left), WW-2 & Korean War vintage: painted copper-coated steel. Sequentially screw into the other; 3/16" dia MS-49 top section the smallest. Self-supports to 15 ft; MS-53 can fit into another MS-53; 1 lb sh. May have surface rust; We no longer have the MS-51 which is necessary. Select from MS-50-52-53, #MS-(specify #-)U, Used some rust, \$4.00 ea #MS-(specify #-)UN, Unused, \$7.50 ea

MS-54 Mast Section. Unused, #MS-54, \$12.00

MS-116 & MS-118 MAST SECTIONS, each 39.3"L. MS-116 is stackable bottom section, MS-118 tapered top; fit AB-15, AB-652, MP-65 & UG-558 bases. 1 lb ea. MS-117 mast is no longer available. #MS-116-U, Used \$4.50; #MS-118-U, Used \$7.50

AB-21-23-24 Mast Sections, similar to MS-116-117-118 except 27" length each. AB-21 is bottom & stackable section; 1 lb each. #AB-(specify #-), used, \$5.50ea

## PRC-Type Antennas

AT-272A RIBBON ANTENNA & AT-272 FLEX-BASE SET for PRC-8-9-10; 2 lbs #AT-272, Unused, \$18 SHORT FLEX BASE only t/ AT-272A, #272-BO, used, \$4 SHORT FLEX BASE only t/ AT-892, #892-BO, used, \$12 RIBBON only for AT-272A, used, #272-RO, \$10.00 RUBBER BASE t/AT-271 (PRC-8-9-10) #AB-129, \$5.00 RUBBER BASE t/AT-271 (PRC-25-77) #AB-591, \$12.00 37.5" Ribbon Antenna for PRC-126 and PRC-128 but not PRC-68. 2 lbs. #37695721153-3, Unused, \$14 RIBBON ANTENNA t/ PRC-6 radio, #PRC-6-RA, Used, \$12 WHIP t/ Canadian CPRC-26, #AT-5001, used, \$10.00 M-422 ADAPTER for using MS-116/AB-23 masts with PRC & BC-1000 as long antenna, #M-422, \$10.00

## Mast Bases

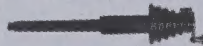
AB-15 MAST BASE for MS-116-117-118 or AB-21-22-23-24 masts; rubber flex spring with 3.3"Lx3" dia ceramic insulator & bottom terminal. Mounts in 2" dia hole. O/a 15"L, 3 lbs sh. Used with small chips in the ceramic insulator, #AB-15-U, \$10.00 As above but used good condition, #AB-15-UG, \$18

AB-558 BASE for MS-116-117-118; mounts to SC-D-189023. 16"Hx6"dia; SO-239 conn. #UG-558-U, Used, \$15.00 As above but unused, #AB-558-UN, \$40.00



MP-68 MAST BASE, makes ground plane antenna when used with combinations of AB-21-24 or MS-116-118 whip masts installed as three radiating elements plus one vertical. Has center 3" dia ceramic feed-thru insulator with UHF connection and sockets for elements. Clamp on bottom allows installation on top of 1.6" dia masts like AB-35 (RC-292) or MS-44 (AB-155). 13"Hx5"Wx5"D, 5 lbs. #MP-68, Used, \$35.00

IN-127 Antenna Base holds three MS-116 and one each MS-117-118 mast sections. 14.5"L black plastic. 2 lbs sh. #IN-127, Used, \$35.00

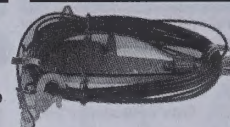


## Mast Adapter



Mast Adapter. The top fits AB-85, MS-44, & AB-35 masts with an outer diameter of 1 3/8". The bottom has an inner diameter of 1 15/16". It is 8.7" long. 2 lbs sh. #MA-44, \$12.00

## Steel Guy Assembly

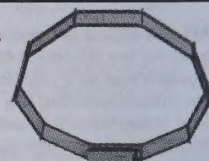


1/8 inch steel guy cable on steel bracket with locking pulley and tension adjustment. Use for field day antenna guy or other wire support use. May not have plastic over steel cable. 9 lbs., Used,

#GUY-36, 36 ft, \$23.00  
#GUY-44, 44 ft, \$26.00  
#GUY-62, 62 ft, \$32.00

## Crystal Radio Kit

All the parts you need to construct a crystal radio. 3 plate sliding capacitor, 10 sided (Decagon Loop Antenna), germanium detector diode, and high impedance ear piece. Tunes broadcast band.



Because of the large loop antenna, an outside antenna is not required. The capacitor and loop need to be assembled. Hardware, information and necessary parts included. 1 lbs sh. #CP-10DEC, Unused, \$27.95

Same as above except a Hexagon loop (6 sides) 330 microhenries, aperture of 153 sq in. #103DE, \$24.95

**Loop Antenna**, (as pictured above) Each loop is constructed of interlocking plastic structural bars and spreaders to form the loop. The spreader has notches for 24 turns of enameled wire which is wound around the framework. Each section of the loop is approximately 3"x7.5" Hexagon loop kit (6 sides) 330 microhenries, aperture of 153 sq in. #6HEXLOOP, \$9.95 Octagon loop kit (8 sides) 490 microhenries, aperture of 280 sq in. #8OCTLOOP, \$12.95 Decagon loop kit (10 sides) 660 microhenries, aperture of 440 sq in. #10DECLOOP, \$14.95

Flat plate sliding capacitor kits use w/ above loops. Three plate capacitor 10 - 180 pf #3PLATECAP \$13 Five plate capacitor 10 - 365 pf #5PLATECAP \$15

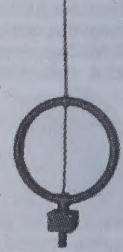
## Loop Antenna



AT-784/PRC DIRECTION FINDER LOOP ANTENNA for use with PRC-25-77; covers 30-76 MHz in five bands. Controls FINE TUNE 0-10 MHz in 1 MHz steps and ATTENUATOR 0-40 DB in 10 db steps. Includes AT-1082 loop with whip, and 8 foot cable. Collapsed size 8x6x3.5, 5 lbs. #AT-784, Used, \$39.95

Manual repro for above. #MM-AT-784, \$18.00

AS-2360 Loop Antenna receives 0.53 Mhz to 10 Mhz, useable to 20.5 Mhz. Impedance 50 ohms, Null depth 25 db, bearing error less than 2 degrees. Originally part of TRQ-23 radio receiving set. The base of the loop contains a loop cathode follower with varactor diode for tuning, two rf amplifiers, and an output cathode follower using 4/6612 tubes which require 36 v B+, 1.1v filament. Tuning voltage 0-102 vdc, gain voltage 0-37 vdc, sense relay 24 vdc. Comes with canvas bag. 6.4x26.2x61.8, 30 lbs sh. #AS-2360, Used, \$250.00 TRQ-23 Op's Manual & Schematics repro, #OM-TRQ-23, \$23.00



CALL US AT 419-223-2196 or 227-6573

24 HOUR FAX 419-227-1313



## C. Crane Antennas



AM Antenna With Twin Coil Ferrite. The biggest advancement in AM radio antenna design in over 50 years! The best

compact AM antenna for a portable radio or home stereo. It increases available daytime stations dramatically and reduces nighttime fade out by 99%! Can also eliminate heavy static and distortion. Tuner Size: 3.3" W x 4.3" H x 1.3" D. Antenna Head Size: 8.5" W x 2.5" H x 1.3" D. New, #TCA, \$99.95

Remote Kit, you can set the Antenna Element closer to a window or even outside, away from the noise and interference. You'll dramatically improve reception on weak AM stations in brick, stucco or metal-sided homes, and virtually eliminate static.

25' remote installation kit. #J25, New, \$19.95

50' remote installation kit. #J50, New, \$29.95

The FM Reflect is an affordable FM antenna that is equal to or better than the best indoor antenna made. Great signal to noise ratio.

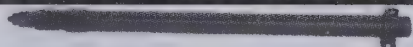
Works with any portable

or stereo receiver. Incorporates a new dipole design for maximum gain across the FM band.

Up to 213% more powerful than a standard dipole antenna. Comes with "F" connector, balun spade connector and alligator clip. Size: 54" element with an 8' feed line. 2 lbs sh. #FMW, New, \$24.95



## PRC-41 Mast Assembly



AB-777 Adjustable Mast Assembly from the PRC-41 radio system. Mast assembly holds the AS-1405 omni directional antenna. AB-777 is 28 1/4" long closed and 78 1/4" fully extended. 1 1/2" dia. 6 lbs. #AB-777-U, Used, \$32.95; #AB-777-UN, Unused, \$44.95

## UHF Dipole Antenna

AT-413/TRC DIPOLE ANTENNA for 225-400 MHz, originally part of large array. T-top elements extendable 3" each end to adjust reception; 20" max T-width. Mount flange moves to adjust height. Type C connection on bottom. O/a 15.5"H, 12 lb. #AT-413, Unused, \$19.95



## AS-1729 Parts

#MX-6707 Base. Used, \$100.00

Mast Spring only for MX-6707; 4 lbs.

#AS-1729-MS, Used, \$12.00

Upper Mast. 64" long, 4 lbs. #AT-1095, Used, \$21.00

TIE-DOWN KIT for AS-1729 including tie-down rope and plastic cap for AT-1095, #AS-1729-TD, New, \$10

Manual repro for AS-1729, #MM-AS-1729, \$18.00

MOUNTINGS for MX-6707 p/o AS-1729, USED:

#SCD-189023 f/ base. unused, \$25.00

#SCD-446058 corner. used, \$10.00; unused, \$25.

EXTENDER for SCD-446058.

#445058-EX-U, used, \$7; #445058-EX-UN, unused, \$12

## Blade Antenna



PRICE REDUCED

AS-2485/ARC-114 BLADE ANTENNA used with 30-76 MHz ARC-114 radio set; BNC connection. 24"H x 42"L, 15 lbs sh.

#5985-168-8383, Unused, \$50.00; 2 for \$75.00

## Rams-Horn Antenna

AS-580A/ARN-30 Rams-Horn Antenna with two dipoles. The forward dipole is used as a glide-slope antenna while the rear dipole is used as a VOR

and localizer antenna. Each antenna is terminated with a BNC connection located on the base. Antenna originally used with the ARN-30D aircraft radio that covers 108 to 126.9MHz. Overall 23.8"Dx17.3"Wx11"H, 6 lbs sh. #AS-580, Used with some cracks in the plastic, \$40.00



## LF-DF Antenna



AT-780/ARN-59 DIRECTION FINDER ANTENNA, 190 - 1750 KHz. Has ferrite loop, 26 V 400 Hz motor & Tx selsyn for drive direction. Operates in circuit on

26 V 100 Hz. W/ 14 error compensator screws, 0-360 scale visible under glass dome & schematic. 3.8x6.5x6.5, 8 lbs. #AT-780, Used \$36.00 #NG-AT780, above no glass, \$26.00

AS-313/ARN-6 DF ANTENNA, similar in function to above, but earlier design; 10x11x5, 18 lbs sh. #AS-313, Used, \$35.00



## Hy-Gain Antenna



HY-GAIN MOBILE-COM ANTENNAS, new: 760-SERIES, include 52" whip, 2.5"H spring base, 18" RG-58 coax cable, PL-259 connector & UG-175 reducer; 5 lbs sh. unused, \$12.00 ea:

#761 (30-33MHz) #767 (33-36 MHz)

KATHREIN WHIP, 64-470 MHz; cut 4 foot length; 1-hole mount, 15' RG-58 coax. 4 lbs. #K50-54-4, \$18. + + + + + TELESCOPING CHROME ANTENNAS, \$3.50 each: #TCA95-380, 9.5"L to 38"L; 6-32 thread mtg screw #TCA84-144, 8.4"L to 14.4"L; 5/32" dia base hole #TCA60-125, 6"L to 12.5"L, 10-24 thrd mtg screw

## CB Antenna Mount

Chrome-Plated Steel Spring. For 3/8"-24 Threaded Whip. With hardware. 4 1/8"H x 1 5/8"D. Unused, #21-1118, \$12.00

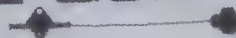


Chrome-Plated Swivel Ball Mount Base. For 3/8"-24 Threaded Whip. With hardware. Unused, #21-1115, \$12.00

HARDWARE

HYE-QUE

BUDWIG HYE-QUE dipole center antenna insulator & strain connector for long-wire set-ups; full legal power capacity + weather-tight polymar construction. Strain assembly with PL-259 connection for lead-in wire drop. #HQ-1, NEW, \$11.15 #HQ-2, Insulator pair, New, \$2.86/ pair



## Cellular Antenna



Cellular Mobile Antenna by Antenna Specialists with trunk lid mount. 824 to 896 MHz with 3DB gain. Antenna capable of adjusting 25 degrees any direction. Antenna has a female TNC connection. Kit comes with 15 feet of RG-58 cable with a male TNC connection on one end, cord clip, mylar tape, bracket channel, a separate TNC male connector, and allen wrench. Antenna with mount stand around 30". 3 lbs

sh. #ASP-917, Unused, \$21.95

## Long Wire Antenna

AS-1321/PRC-47 LONG WIRE

ANTENNA 45 ft vinyl-covered with insulators at 15" and 25"; clips at insulators adjust length. Designed for use with 150 W HF transceiver; 4 lbs. #AS-1321, Used, \$25.00



## Dipole Fixture



DIPOLE FIXTURE, part of PRC-74 long-wire antenna set. H-

shaped has 25i vinyl-covered 2-conductor copper wire: 2.5x12x1, 3lbs sh. #DP-MK-911, Unused, \$7.00

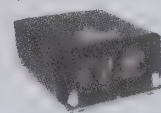
## Impedance Match



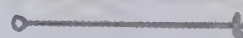
CU-459/AR IMPEDANCE MATCH NETWORK, black plastic bullet-shaped designed to mount to aircraft wing. Holds two AT-624 antenna elements (not available); 50 ohm BNC-conn.

P/o AN/ARA-31 24-49 FM MHz homing set; 4.3x3.3. 2# . #CU-459-UN, Unused, \$9.00 As above except used, #CU-459-U, \$4.00

KY-149/AR KEYSER, couples homing antenna to radio; requires 28 VDC. Has a 28VDC globe 60 RPM gear motor. 2.3x7.7x4.9; 3 lbs #KY-149-U, Used, \$12; #KY-149-UN, Unused, \$17.95



## Screw Anchor



32" long Screw Anchor from GRC-103 radio system. 2.6" diameter. 5

lbs sh, #ANCH-103, Used, \$12.00

## Trailing Wire Antenna

WT-7A Trailing wire antenna weight 4.25" x 2.5" on 12" leader. 5 lbs sh. Used, #WT-7A, \$18.00



## Trough Antenna




TROUGH ANTENNA. No info on this, but we put a sweep generator and spectrum analyzer on a pair and they seem


to work with good response from 900 to 1200 mhz. The frame is fiberglass and there is a dipole about 5 1/8 inch overall with reflectors about 24.5 inches long. Connector is HN type. Overall size 25x10x5, 8 lbs sh. #ANT-TROUGH, Unused, \$49.50

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## Microphones

 600 ohm Uni-Directional Dynamic Microphone. Frequency response: 50-15,000Hz. Effective output Level: -54dB. 8.5' cord with a gold plated two way plug for 3.5mm or 1/4" phone plug. With on/off slide switch. Mfg by Merry. #DM-35. Unused, \$5.00 ea; 3/\$12.00

 Handheld Dynamic Power Microphone. Impedance of 1.2K ohm. Frequency response of 300-6KHz. Coiled cord with a 4 pin female connector. Marked TransVideo but made by Merry #DMC-510, Unused, \$15 each; 3/\$30

500 ohm Omnidirectional Dynamic Desk Top Microphone. Has monitor switch and push-to-talk switch. Frequency response: 200Hz-5KHz. Sensitivity: -76 +/- 4DB at 1KHz Re 1V/ubar. Coiled cord with 4 pin female connector. Mfg by Merry #DMC-529, Unused, \$12.95

 GM Delco Microphone for mobile communications; black with PTT switch, coil cord and 5 pin male connector. #GM-DEL-MIC, Unused, \$12.00


T-45 MIC Carbon type 100 ohm 50 db below 1 mv, flat response with PL-291 two contact male plug, 11" cord. #T-45, Unused, \$7.50

LIP MIC for CW49507 or H-62 headset; 100 ohm, #CW-51071, \$23.00

#M-29B MIC with U-77 plug; for T-195 T-368, etc. USED \$14.00

#M-52 MIC with 5 foot cord & PL-68 plug. UNUSED, \$14.00


#M-80C MIC, unused, \$16.00

 Low-impedance omni-directional for public address use; 150 to 4000 Hz response. Swivel mount; 5/8" dia 27 threads/inch. Cannon XL-3-11SC connector; 2 lbs sh. Used: #M-43-UL, University Loud-speaker mfg. \$16.00

#CX-3094 MIC CORD with mating connector for above; 3106-14S-7P 3-pin male on other end. 25 ft Used, \$10.00

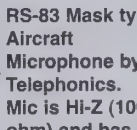
TRIPOD MIC STAND for above, Used #MT-596, \$12 ea; 2 / \$19.00

## Shure Mic


 Shure Unidirectional Dynamic Microphone. Ball-type. Dual HI Z & LO Z Impedance. Spherical grille is a very effective wind and pop filtering, ideal for closeup vocal miking. Symmetrical cardioid pickup pattern minimizes feedback. Lockable On-Off switch. Frequency response 80 - 15KHz. 3 pin XLR connector. Swivel adapter. 3 lbs sh. #588SDX; Unused in original box, \$70

## WW-2 CHEST SETS

#H-12, Unused, \$9.00;  
#T-26A, Unused, \$9.00;  
#T-46/TD3, Used, \$9.00


 RS-83 Mask type Aircraft Microphone by Telephonics. Mic is HI-Z (100K ohm) and has a 16.5" cord with a 33" extension cable that has a push to talk switch. #RS-83, Unused, boxed \$18.00

## Handsets

 H-250 HANDSET w/ push-to-talk button, coil cord & U-229 plug. #H-250-U, Used w/ broken clip, \$23 #H-250-UN, Unused, \$40.00 #H-350, Used Checked, \$40.00

H-33/PT HANDSET for GRC-3-8, PRC-10; Has stretch coil cord with U77 plug. #H-33, Used Checked, \$22.95

TS-9\* HANDSET, p/o EE-8 field phone; 2 lbs. #TS-9, Used, \$19.95


 TS-9 Handset wired like TS-13/15 for use with BC-1000 radio. #TS-9-1000, Used checked, \$30.00

Handset f/ BC-1000, #H-23 (or =), \$40


H-90 HANDSET, like TS-9 but w/ U-77 plug; #H-90, \$14.00


Beige Standard Handset newer style mfg by ITT, #BEIGE-H, Unused, \$4.00

JEN-20 HANDSET w/ AMPLIFIED receiver for hearing impaired; black or beige. #JEN-20, NEW, \$18.00

 Western Electric Handset with 1903 patent date; black painted brass handset with PTT-switch appears to be same as TS-7 handset used with pre-World War-2 EE-5 field phone. 3-wire cloth cord. 4 lb. #D14842, used, \$50.00

## Headbands


 Hard to find HB-7 Headband for the famous HS-23 and HS-33 headsets. Less connector. 2 lbs sh. #HB-7, Used good condition, \$49.50

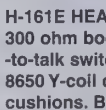
 Old Military Black Leather Headband. Holds a 1 3/4" receive element. 2 lbs sh. #BLK-BAND, Unused fair condition, \$14.00 each; 2 for \$24.00


Headband by Murdock f/ R-14, #HB-5, \$16.50 each; 2 for \$26.00


## Headsets

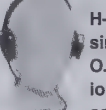
### VRC-12 HEADSETS

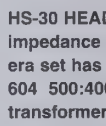
 H-251 HEADSET w/ vinyl cushions, 24" coil cord; black color. #H-251-U, Used, \$10 #H-251-UN, Unused, \$14 #H-251-A-U, Used, \$12 #H-251-A-UN, Unused, \$18


 H-161E HEADSET with 300 ohm boom mic, push-to-talk switch, & CX-8650 Y-coil cord; vinyl cushions. Black. #H-161E, Unused, \$69.50

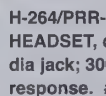
 H-195 HEADSET & BOOM MIC, rubber-covered single 300 ohm phone element, 40 ohm mic & push-to-talk switch. Similar to H-144 except has 10 foot cord with PJO-55 & -68 plugs; 4 lbs sh. #H-195, Unused, \$30.00

 WIRELESS HANDS-FREE HEADSET for two-way FM radio communications in high noise environments. Uses throat mic and ear cushions with EPA noise-reduction rating of 23 DB. Operates on 49.86 Mhz; controls for Volume & Squelch, Velcro adjustable head web and mic straps, 6" antenna and fiber-glass case. Requires two 9 V batteries; #7800H, New, \$85.00

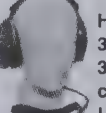
 H-113 600 OHM HEADSET, similar to CW-49507 except O.D. green color with cushions and PL-54 plug on 18" cord; 3 lbs. sh. #H-113, unused, \$8.95; 2 for \$15

 HS-30 HEADSET 250 ohm impedance light-weight WW-2 era set has cord wired to CD-604 500:4000 ohm matching transformer and PL-54 plug; 3 lbs sh. #HS-30-U, Used, \$12 #HS-30-UN, Unused, \$24.00


 H-63 HEADSET and BOOM MIC, 600 ohm receive and 100 ohm M51 mic elements; with JJ-055 and 3-pin jacks. 3 lbs. #H-63, Unused, \$16.95


 H-264/PRR-9 EAR-PLUG HEADSET, coil cord & 2 mm dia jack; 300 to 2500 Hz response. #H-264, NEW, \$5.00

CTE49214 headphones f/ WW-2 MAB radio; no skull cap, #CTE49214, \$9.00


 H-227 HEADSET, with two 300 ohm elements in 4" x 3.5" vinyl cushions, 42" coil cord, and U-77 plug. Used with GRC-3-8, GRC-106 radios. OD-green & black; 2 lbs. #H-227, Used, \$21.95

## Plantronics Headsets

 Starset Supra Amplified Operators Headset with voice tube by AT&T. Cushioned earpiece with adjustable headband. Comes with clothing clip and plug amp. Brown color. Unused in the original packaging. 2 lbs sh. #KS22990-L1, \$34.50

 ACS Operators headset that fits over the ear with six earpieces of various sizes. Has dual connector with 1/4 inch plugs (similar to PL-55) for connection to system. #SMD-0-102-15, Unused, \$35.00

## Accessories

 GSA-6 CHEST GROUP SA-142 PPT-switch & CX-1077 cable w/ U-77 plug connect H-63 headset to GRC radios. #GSA-6, Used, \$7.50

PHONE PLUGS, #PL-354 red. used, \$5.00 #PL-55 on 30" cord. used, \$2.50 PL-55 equivalent 1/4" phone plug with no cord. #M462/4-1, Unused, \$2.50 PL-55 on a 5 foot cord. #CX-1201, Unused, \$5.00 PL-68 (or =) Mic plug. #PL-68-U, \$5;

DOUBLE PLUGS, unused: #D178542 (WE289) for headsets, etc. \$4 #2PPC f/ switchboards, \$4.00

JACKS, #JK-33 PHONE JACK to fit PL-68 plug. Used, 2/\$1.20 #JK-34 PHONE JACK to fit PL-55 plug. Used, 2/\$1.20

MIC ELEMENTS, checked: #F-1 for TS-9, \$5.00 #M-51 for H-63, M-29, \$5.00; #M-235 for H-33, \$6.00 #TA-117 for H-60 (TA312), \$6.00;

RECEIVE ELEMENTS, checked: #1227 (or =) for H-33 receive, \$6 ea; TS-9 receive element, CALL #TA-235 for H-60 (TA312), \$6.00 #R-30 receive element for HS-30, \$1.25

### SWITCHBOARD CORDS

#PL68-68, black cloth covered cord with early style phenolic PL-68 plugs on each end; 68"L. \$9.00 #G2-SWB-72, grey cloth-covered cord with double 310 plug on each end: 72"L, 2 lbs. \$7.50 #G2-SWB-46, as above but 46"L \$6.50 #500286-104, red with black cloth covered cord with double 310 plugs on each end; 50"L. \$14.00 #500286-106, as above but 75"L. \$16 #500286-110, as above but 118"L. \$18 #500286-115, as above but 178"L. \$20 #500286-120, as above but 240"L. \$22 #WE-338A, dirty light brown dual cloth covered cord w/ double 310 plugs on each end; 17"L. \$10

EMAIL US YOUR INQUIRIES AT FAIRRADIO@FAIRRADIO.COM



## Headset Cords & Cushions



CD-604 CORD with impedance matching transformer 500 ohm to 4000 ohm; 6" cord & PL-54 plug. P/o HS-30 headset.  
#CD-604-U, Used, \$3.50  
#CD-604-UN, Unused, \$6.50

Same as above except 78", #CD-605-U, Used, \$6.00

4 Conductor Brown Cloth Covered Cord for Headsets, etc... 6 feet. #CORD-4C, Unused, \$25

MICROPHONE EXTENSION CORD with PL-68 plug. #CW-49561, Unused, \$18.00

MIC COIL CORD, 1-shielded, 2-wire not; stretches 30"-42". #SH-CC3042, NEW, \$3.00

"Extra-Stretch" Phone Coil Cord 4 ft to 25 ft extension w/ modular jacks; tan. #T425-MOD, New, \$3.50

### "Y" CORD

#CD-620F, molded 16"L legs & 6" cord w/ 2 lugs each end. For HS-30 Headset. \$3.50

## HEADSET CUSHIONS

#M-301 4" Chamois cushions for HS-23 or HS-33, \$10pr  
#M-300 Inserts for HS-30, Unused, \$3.50 pr

## Plugs & Jacks

### 1/4" Connectors

1/4" STEREO PLUG WITH STRAIN RELIEF, NICKEL. Solder connections. Spring cable guide. #CA022, 2 for \$1.29; 4 for \$2.29

As above except mono, #CA021, 2 / \$1.19; 4 / \$2.09



RIGHT-ANGLE 1/4" STEREO PLUG WITH STRAIN RELIEF, NICKEL. Solder connections.

#CA026, 2 for \$1.29; 4 for \$2.29

As above except mono, #CA025, 2 / \$1.19; 4 / \$2.09

1/4" Mono Jack with strain relief, Silver plated, Spring cable guide, Solder connections. #CA035, \$0.99; 3 for \$2.29

As above except Stereo. #CA036, \$0.99; 3 for \$2.39

1/4" Mono Panel-Mount Jack, Open Circuit, #CA039, 3 for \$1.00; 7 for \$2.00

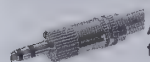
As above except Stereo. #CA041, 3 for \$1.10; 6 / \$1.95

1/4" Mono Panel-Mount Jack, Closed Circuit, #CA040, 3 for \$1.00; 7 for \$2.00

As above except Stereo. #CA042, 3 for \$1.10; 6 / \$1.95

### 1/8" Connectors

1/8" Mono Plug with strain relief, Nickel, Spring cable guide, Solder connections. #CA003, 3 for \$1.00; 7 / \$2



As above except Stereo. #CA004, 3 for \$1.19; 7 for \$2.39

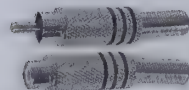
1/8" Mono Jack, Nickel, Spring cable guide, Solder connections.

#CA011, 3 for \$1.29; 7 for \$2.59

As above except Stereo. #CA012, 3 for \$1.39; 7 / \$2.79

1/8" Mono Panel-Mount Jack, Mono / Close circuit, Solder connections, With insert switch, #CA015, 4 for \$1.00; 10 for \$2.00

### RCA Connectors



NICKEL-PLATED PHONO RCA PLUG. Spring cable guide. Colored identification ring. Solder connections.

Boot color black, #CA063B, 2 for \$1.39; 5 for \$2.99  
Boot color red, #CA063R, 2 for \$1.39; 5 for \$2.99

### RCA JACK.

Boot color black, #CA064B, 2 for \$1.49; 5 for \$3.19  
Boot color red, #CA064R, 2 for \$1.49; 5 for \$3.19

## XLR Connectors



3 Pin XLR Nickel-Plated Long type. Solder connection. New,

3.2" long Jack, #CA096, \$1.89 ea; 2/\$2.99

2.8" long Plug, #CA097, \$1.89 ea; 2/\$2.99

Short Type version of above. New,  
2.8" long Jack, #CA092, \$1.89 ea; 2/\$2.99  
2.4" long Plug, #CA093, \$1.89 ea; 2/\$2.99

Short type version as above except 4 pin. New,  
Jack, #CA102, \$1.89 ea; 2/\$2.99  
Plug, #CA103, \$1.89 ea; 2/\$2.99



3 Pin XLR Panel-Mount Nickel Plated Jack. New,  
Jack, #CA104, \$1.89 ea; 2/\$2.99  
Plug, #CA105, \$1.89 ea; 2/\$2.99

As above except 4 pin. New,  
Jack, #CA108, \$1.89 ea; 2/\$2.99  
Plug, #CA109, \$1.89 ea; 2/\$2.99

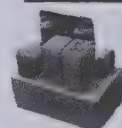
## Toilet Seats

Phone jack spring covers for WW2 Navy sets. Also useable on BC-1000, BC-659, BC-620 and others, but not exactly right. The hinge assembly is not the same. Unused, #CMX-23429. \$5.75 each. 10/\$50.00

Other toilet seats available similar to above.  
Black wrinkle phone jack cover. #PJ-TS1, Unused, \$3.50 each

Olive Drab phone jack cover. #PJ-TS2, Unused, \$3.00 each

## ART-13 Parts



ART-13 CRYSTAL CALIBRATOR, provides 50 KHz fundamental using 200 KHz crystal. Sold LESS 200KHz crystal. Also 1000 Hz tone for MCW. Tubes 2/12SL7, 12SA7; 6x5x3, 4 lbs sh. #XCAL-ART-13, Used, \$35.00

ART-13 PA Plate meter. #PMTR-ART-13, Used, \$23.

ART-13 Antenna Current meter, no transformer, #AMTR-ART-13, Used, \$23.00

Male connector fits DY-17, #U9, \$35.00

Female connector fits ART-13 power, #U7, \$55.00

Female connector for C-87 control box, #U6, \$30.00

Male control connector for ART-13, #U8, \$30.00

### Knobs for ART-13

Antenna loading 0-100, 200-100 #KN1-ART-13, \$12.

Antenna tuning coarse Triangles marked 1-13 ccw. #KN2-ART-13, \$8.50

Antenna tuning fine 100-0, #KN3-ART-13, \$12.00

High Frequency tuning Triangles 2 - 18 mhz, #KN4-ART-13, \$8.50

High Frequency tuning fine 0-99 over 360 degrees. #KN5-ART-13, \$12.00

Small indexing dial from High Frequency tuning and also used on some of the plug-ins. #D-ART-13, Unused, \$4.75

T-bar locking bar for ART-13 tuning knobs. #T-ART-13, \$4.75

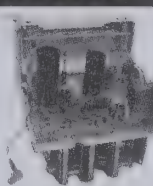
## ARC-187 Cards



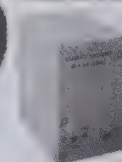
ARC-187 Receiver RF/Modulator circuit cards removed from ARC187 for some TCTO. These two circuit boards were the heart of the transceiver. No schematics or hookup info. Mostly discrete components with some surface mount. More pictures at [www.fairradio.com/arc187.htm](http://www.fairradio.com/arc187.htm) Each board is 4.5x4.2x0.8, 2 lbs sh. #CB-ARC-187, Used good condition, \$25. both circuit cards.

## RF Amp. / Preselector

Harris RF301/GRC-165 2-15 Mhz RF Amplifier/Preselector section contains V1 6DC6, V2 12BY7 which provide tuned grid/tuned plate amplification for the RF receive amplifier and the transmit driver. Band switch does not have detents, 14 1 mhz bands. 1/IERC 6025 and 1/IERC 5020. Power required 200 VDC, -36 Vdc and 6.3 vac. An excellent basis for QRP set or experimentation. 6.3x6.5x6.7, 5 lbs sh. With schematic and info. #RFA-165, \$24.95; 2 for \$45



## 5 MHz Standard



FREQUENCY STANDARD MODULE from R-1051\* and RT-618\* radios; usable as replacement or adapt to other need where standard is required. Crystal oven with 5 MHz crystal provides 5 MHz sinewave output (approx 1.8V) plus possible non-sine outputs dual 500 KHz, 1

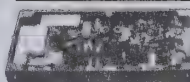
& 10 MHz. Designed stability: 1 part in 10 / day. Requires 18-24 VDC input. 4.4x3x4.5, 2 lbs. used crystal only is checked, other outputs may need repair, #6625-078-4718, \$29.95 w/ schematic

## 455 KHz BFO

PERMEABILITY-TUNED 455 KHz BFO COIL from R-392 receiver.

Originally used with 5-55 pf variable capacitor but fixed cap may be substituted. Oscillation without parallel capacitor: 452-480 KHz. Good basis for BFO for any receiver with 450-465 KHz IF; w/ schematic. 3.3"Lx 1.5" dia, 1 lb. #BFO-T602/R392, USED, \$17.95

## RF Exciter



RF EXCITER MODULE from 1980's HF transceiver; mixes 500 KHz USB signal with synthesized frequency

to produce and amplify modulated RF. Synthesizer (not available) supplied 74.5/75.5 (LSB/USB) and 77-105 Mhz depending on desired output frequency; RF output is low level. Requires +5, +12, -12, +28 VDC; with pinout. 1x7.8 x3.3, 2 lbs. #RF-EXC-1512, unused, no info, \$25.

## RF-550 Modules

Harris RF-550 HF receiver & RF-131 exciter modules; 4.1x2.1 x5.9, 2 lbs sh. USED, not tested:

#A2A8/RF550 High Band Phase Lock Loop. \$38.00

#A2A14/RF550 Low Band Phase Lock Loop, \$37.95  
SCHEMATIC packets, #SCH-(specify #), \$8.50 ea w/module purchase.



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# Velleman Electronic Kits

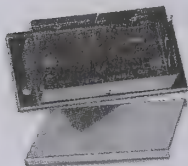
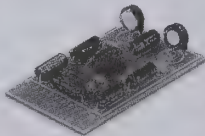
Kits require insertion and soldering of components! Pictures are shown after assembly.



**UNIVERSAL MONO PRE-AMPLIFIER.** This kit has been developed as pre-amp for a number of audio applications where there is insufficient input signal. Applications as a microphone pre-amplifier or

for level correction. Power supply: 10-30VDC / 10mA. Output impedance: 1Kohm. Adjustable output level: max. 40dB. Frequency range : 20Hz to 20KHz  $\pm$  3dB. Max. input signal : 40mV. PCB dimensions: 1.2" x 1.7". #K1803, \$9.99

**UNIVERSAL STEREO PRE-AMPLIFIER.** Frequency range 40Hz - 30kHz (-3dB). Maximum input voltage 50Vrms. Adjustable gain 40dB max. Output impedance 1Kohm. Requires 10-30V DC / 5mA. PCB dimensions 1.7" x 2.6". #K2572, \$19.30  
Recommended Power Supply Kit, #K1823, \$13.98

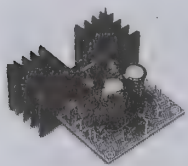


**AM/FM ANTENNA AMPLIFIER.** This amplifier provides 22dB gain wherever you need it. DC power supply directly or via the coax cable. Metal housing included. Gain: 22dB. Power supply: 12V to 15V / 3mA.

Input and output impedance: 50 - 75ohm. Frequency range : 10MHz to 150MHz. Note: It is important to put the amplifier as close as possible to the antenna. 3.4" x 1.4" x 0.9". #K2622, \$22.99

## 7W MONO AUDIO AMPLIFIER.

This small amplifier is constructed around the TDA2003 IC, capable of delivering 4Wrms at 4ohms. The IC is completely thermally and short-circuit protected. A conventional direct current can be connected as supply. Music power output : 7W / 4ohm. RMS output: 3.5W / 4ohm or 2W / 8ohm. Total harmonic distortion: 0.05% (1W / 1KHz). Frequency response: 20Hz to 20KHz (-3dB). Signal/noise ratio : 86dB (A weighted). Input sensitivity: 40mV / 150Kohm. Overload and short-circuit protected. Supply voltage: 15VDC (8 to 18VDC possible) / 0.5A. 2.2" x 1.4". #K4001, \$14.50

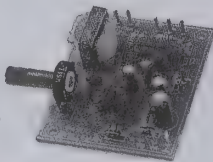


**2 X 30W AUDIO POWER AMPLIFIER.** This small amplifier is constructed with the TDA1521 IC, with a maximum supply capability of 2 x 15Wrms (4ohm) of 2 x 10Wrms (8ohm). The IC is thermally and short-circuit protected. Additional

rectifier and smoothing filter are unnecessary, as alternating current can be directly connected to the unit. See our website for further specifications. 2.8" x 2.0". #K4003, \$33.90

## TELEPHONE AMPLIFIER.

This telephone amplifier may be used as a free-standing amplifier with speaker, e.g. to listen to a telephone conversation, or the output may be connected to an amplifier or mixing panel (e.g. radio stations). Input - isolation transformer interface. Speaker output 0.5W / 8ohm. Line output 0dB (0.775Vrms). Requires 7 - 9V AC or 9 - 12V DC / 150mA. PCB dimensions : 2.5" x 2.1". #K4900, \$16.99  
Recommended housing, #G416, \$9.99



**SIGNAL TRACER/INJECTOR.** This signal tracer /injector has been designed to inject or detect a specific signal into an audio circuit in need of repair (such as amplifiers, radios, tone controls, ...) so as to detect the fault. In this way problems can be traced more easily. The signal tracer may also be used as a simple monitor or amplifier. Independent injector/tracer. Injector - 0-2.5Vrms output (adjustable), output impedance: 1.5Kohm, frequency:  $\pm$  1KHz. Tracer - 3.5mV to 10Vrms sensitivity (adjustable), gain: 40dB, input impedance: 50Kohm. Output power: 0.5W / 8ohm. Power supply: 7-9VAC or 9-12VDC / 150mA. PCB dimensions: 2.4"x2.1". #K7000, \$18.99

**VOLTAGE DETECTOR** this device locates house wiring within walls and traces wire to find a break. A flashing LED indicates when voltage is present. The flashing speed indicates how close the wire is, approx 3.9 inches maximum. For audio indication you can add buzzer SV4/12-S. 9V battery (not included). 2.2"x2.5". #K7101, \$10.99  
Recommended housing, #G407, \$5.90



**DC TO PULSE WIDTH MODULATOR** for control for DC motors, lighting, small heaters. Pulse width modulation (PWM) produces a series of pulses whose duration is proportional to a DC voltage. This allows for very efficient control of DC motors and other DC operated devices. Overload and short circuit protected. Input voltage 8 - 35 VDC output current 6.5A. Dimensions: 3.4"x1.9"x1.8". #K8004, \$23.99

**MULTIFUNCTION RELAY SWITCH.** 15 functions including timers, switching, flashing, interval, random switching, ... Two pre-programmed delays. Learning mode for delays of 2s up to 12 days. Pushbutton control. EEPROM for delay time storage in case of power failure. On-board transient filter for the relay contacts. Suitable for control of incandescent lighting, halogen lighting, fluorescent lighting, fans, valves, buzzers, ... Requires 9-12VAC or 12VDC. Max. load : 2.5A (275W / 110V). 3.4"x1.5"x1.0". #K8015, \$26.99  
Recommended housing, #G410, \$6.50



**10-CHANNEL, 2-WIRE REMOTE CONTROL.** Control 10 devices using only 2 wires up to 55 yards apart. Microprocessor controlled. Inputs can be push-buttons, switches or open collector

outputs. The receiver section provides 10 open collector outputs that control relays directly. Terminal block connectors for all input and output connections. All outputs are provided with LED indication. Can be used with: K6711, K8000RS, K8006, or relay cards: K6714, K6714-16. 10 open collector outputs : 50V / 100mA. Requires single 12-15V AC or DC, 300mA. Dimensions: control pcb : 2.7" x 2.0" x 0.6"; receiver pcb: 4"x2"x1". #K8023, \$39.95

**3 WATT MONO AMPLIFIER.** Small but powerful amplifier suits a wide range of applications such as: microphone amp, for doorbells, intercom, sound effects, earphones, radio receivers, PC sound card, musical instrument, etc.. 3 Watt RMS. Frequency range: 50Hz - 20KHz. Gain: 32dB (40X). Short circuit & thermal protection. Requires 6 - 15VDC. Current consumption 500ma max. 1.6"x1.9". #K8066, \$15.60



**SIGNAL GENERATOR.** Signal output: sine wave, triangle, square wave and integrator (selectable through jumper). Signal frequency: about 1KHz (fixed). Output level: adjustable from 0 to 100mVrms (LEVEL potentiometer). Requires 9V battery (not incl.). 2.2"x1.6". #MK105, New, \$6.30

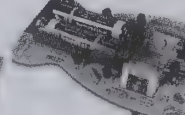
**WATER ALARM.** Gives alarm sound when water is detected. Incorporated alarm buzzer. Water sensor can be placed at a distance by cutting the board and using wires to connect the sensor. Requires 9V battery (not incl.). 1.8"x2.8". #MK108, \$5.20



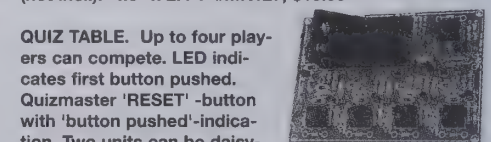
**INTERVAL TIMER.** For intermittent operation of circuits and equipment. Blinking light, video/photo single frame shooting, slide projector control, miniature models. 3A/24V output relay with dry switch-over contact. Pulse time adjustable: between 0.5 and 5 sec. Pause time adjustable: between 2.5 and 60 sec. Power supply: 12Vdc / 100mA. 1.6"x3.4". #MK111, \$5.70

**IR LIGHT BARRIER.**

Applications: announce visitors, warn against burglars, set boundaries, for science projects, ... Audible (85dB) and visible (LED) alert. Range 3.3ft to 13ft. On/off switch provided. Requires - Transmitter: 9V DC / 50mA max; Receiver: 9V DC / 20mA max. 9V battery holder and adapter jack included. Transmitter: 2.2" x 1.6". Receiver : 3.9" x 2.0". Not for outdoor use. #MK120, \$8.90



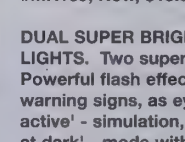
**RUNNING MICROBUG.** Attractive bright colored bug-shaped miniature robot. The microbug is always hungry for light, it drives towards it! Two open chassis sub-miniature motors. Adjustable light-sensitivity suits almost any light condition and allows to control it's 'bug-like' behavior. LED 'eyes' indicate driving direction. Stops in total darkness. Requires 2 x 1.5V AAA batteries (not incl.). 4.0" x 2.4". #MK127, \$10.99



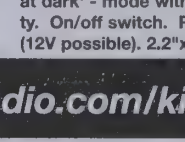
**QUIZ TABLE.** Up to four players can compete. LED indicates first button pushed. Quizmaster 'RESET' - button with 'button pushed'-indication. Two units can be daisy-chained for eight-player-fun! With on-off switch. Requires 9V battery (not included). 4.3" x 3.1" x 1.1". #MK133, \$10.99



**CLAP ON/OFF SWITCH.** Operate your lighting with a simple hand-clap. Ideal for disabled or elderly people. Good immunity against surrounding noises. '1-clap' or '2-clap'-mode selection. '2-clap'-mode features built-in safety turn-off timer (5h approx.). Output relay 'pulse' or 'toggle' selection. Microprocessor controlled. Output relay with LED-indicator. Requires 12V DC / 150mA. With DC adapter socket. 3.1" x 2.9" x 0.9". #MK139, New, \$18.99



**DUAL SUPER BRIGHT FLASHING RED LIGHTS.** Two super bright red LEDs. Powerful flash effect for emergencies, warning signs, as eye-catcher, 'alarm-active' - simulation, etc. 'Auto turn-on' at dark' - mode with adjustable sensitivity. On/off switch. Requires 9V battery (not included) (12V possible). 2.2"x1.3"x1.6". #MK148, \$8.60



MANY MORE KITS AVAILABLE AT [fairradio.com/kits.htm](http://fairradio.com/kits.htm)



## ARC-5 Parts

SCR-274/ARC-5 COMMAND SET replacement parts:  
#7277 6-9.1 MC 1st IF, \$6.50  
#7279 " " 3rd IF, \$6.50  
#5856 " " oscillator \$6.50  
#7249 5.3-7 MC BC-458/T-21 xmitter PA coil, used, \$7.50

## Infrared Device



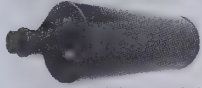
INFRARED RECEIVER/DEMODULATOR as used in televisions and VCRs for remote control; has infrared detector and an IC for signal processing. Requires 5 VDC;

0.7x0.6x0.6, 1 lb sh.

#IFRD-TV, Unused, \$2.50 each; 6 for \$10.00

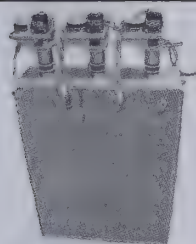
## Cavities

Western Electric 1012A 475 - 525 Mhz cavity. Type N connectors. 11.5x6.2x6.1, 10 lbs sh. #CAV1012A, Used good condition, \$49.50



220 Mhz Celwave cavity tunes approximately from 190 - 240 mhz. Type N connector. 21" long x 6.1" diameter. 9 lbs sh. #CPX220-12, Used good condition, \$99.00

## 135 MHz Tunable Cavity

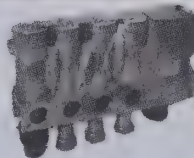


118 - 135 Mhz Tunable Cavity. This is a large three section cavity for use in the range 118 to 135 MHz. No specifications available. Those of you who know about cavities could probably modify it for other frequency ranges. This unit has stepper motor and

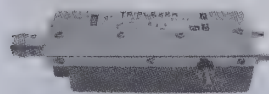
encoder on each section. Bodine Hysync DC Stepping Motor 23X1BEHD Caltech Corp Bit encoder 8 bit Absolute 33X121. No info on circuit to use these motors, but you can manually tune the cavities or design your own control circuits. 8.3x26.5x42.9, 70 lbs sh. #TC-135, Used excellent condition, \$110.00

## 900-1100 MHz Cavity

TRANSMITTER TRIPLER / PRESELECTOR CAVITY MODULE from TACAN system in 900-1100 MHz range. Consists of preselector and four silver-plated cavities originally gang-tuned using ball-chain drive (not available) 10x7.5x2, 7 lbs sh. #4-CAV-93, used, \$57.00



## Triplexer



TRIPLEXER from cellular application by Fuji

Electrochemical Co. #EF-T02, Frequencies are as

follows - Transmit: 835MHz, Receive: 880MHz, Lo: 784.36MHz. Has female push-on SMA connections for Transmit, Receive, and Lo and a female TNC connection for Antenna. Cast aluminum housing with a removable cover. o/a 4.3x1.5x0.8, 2 lbs sh. Appears to be unused, #EF-T02, \$5.00

## 850-895 MHz Modules

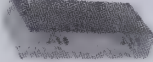
Modules from digital air to ground phone system. Receive frequency was approx 850 MHz and transmit 895 MHz. Removed from equipment-Excellent:



DITCOM MICROWAVE DF-2575 CIRCULATOR for 850-895 Mhz; 500 watts CW max, 3 KW peak. Isolation 20 DB min; insertion loss 0.3 db max. VSWR 1.25:1. Two SMA, one N conn; 1.4x1.7x1.3, 1 lb. #DF-2575, \$18.00

FERROCOM 9K15-S CIRCULATOR, 840-900 MHz; T-shape SMA-N-SMA conn. No further info; 1.9x1.9x1. #9K15-S, \$18.00

MILCOM 2-WAY COMBINER for 800 MHz, 2- SMA female & 1- male connections; 1.8x2.8x2, 2 lbs. #240-089, \$23.00



## 800-900 MHz Modules

MODULES & COMPONENTS from airline phone system operating in the 800 to 900 MHz range:



#IFPC COMMON module has two receiver input and two transmitter output sections. Has parts two each of Motorola filter 0850E05140 and 0895E05141, M/A- COM 7N526-6016 circulator in one section. Also 47.5 MHz local oscillator, 5 MHz piezo osc and IC's N80C169KB 16 MHz CPU, 27C256-20 32Kx8 EPROM, 3/84256-10L 256Kx4 RAM & related IC's. Requires +28, +12, -12 V; 11x6.5x3.2, 7 lbs sh. #IFPC, \$20.00

#IFPC-T/R MODULE, stripline receiver RF/IF and low power xmitter boards plus oscillator/AGC board each in separate cavities. Components S80C652-1 MPU, 2/84256A-10 RAM, 27C256JL EPROM, two Sony 20102A D/A CONV, etc. Requires +12, -12 +5 VDC; 11x6.5x1.5, 5 lb. #IFPC-T/R, \$15.00

#AFF-PS MODULE, powered both above modules; has switching supplies Callex #24S12 (24 VDC in to 12 VDC 1.7 A out) and #12S5 (12 VDC in to 5 V 400 MA out); two RO Assoc 200-400 VDC input uVERTERS with one 28 VDC 10 A out and other 12 VDC 10 A out; and Vicor DC-DC Converter 250 VDC 35 W in to 5 VDC 25 W out. Also flat heatsinks, capacitors, etc. 11x6.5x3.3, 7 lb. #AFF-PS, \$12.00

## 8-12 GHz Oscillator Assy

8-12 Ghz Oscillator assembly from some Gigatronics device. Federal Stock Number is 6625-01-191-1980.

The assembly consists of an Avantek YO85-2218 8 - 12.4 Ghz oscillator and a Virtech VX-8012 Circulator or Filter??? 4 lbs sh. #101CA15400, Unused, \$100.



## Wavemeters



p/o AM-1956/ GRC-50 Rx/Tx 1350.5-1849.5 MHz FM oscillators; cal book for tuning CHN #, MAIN TUNE, OUT FREQ, & REC OSC. BNC connections; 3x3x9, 5 lbs sh. #WAVE-1956, Used, \$20.95

1700-2600 MHz WAVEMETER, 20-turn vernier tunes in increments of 1. BNC connections; 1N21 diode output. On 3.5"W bracket; o/a 4.8"Hx2", 2 lbs sh. #SMD-302123, used, \$29.95

## Bird Power Monitor

BIRD 4162D RF POWER MONITOR, rated 220-405 MHz 40 W. Measures incident and reflected power; VSWR 1.1:1 max. Usable over 145-500 MHz. Output 100 ua @ 5K ohm. RF connectors; output C, input BNC. DB-9 for DC outputs. 1.8x4x1, 1 lb sh. #4162D, NEW, \$22.95



## SWR Indicator Circuit



STANDING-WAVE RATIO INDICATOR CIRCUIT, assemble a SWR meter using this 1.8" square 0-10 scale (FS=2 ma) meter

with filters, rectifiers & modified Schering bridge. One pair of bridge arms is resistive, the other capacitive. Circuit is balanced when antenna is tuned to 52 ohms resistive resulting in "0" reading on meter. Bridge: 2.5x 2.3x1, 2 lbs sh. #M701/CU-991, Used, w/info, \$10.95

SWR / Discriminator pull out from AM-3349/GRC-106 Amplifier which covers 2-30 MHz at 200 Watt AM and 400 Watt PEP. Has two R/A mini BNC connections and a 15 pin DB connector with 15 pin mating connector. 3.2x2.6x2.2, 2 lb. w/ schematic. #SWR-3349, \$12.00



SWR BOARD for HyGain radio; no further info. #PTSR006AOX, \$1.50

## QRP Circuit Boards

SHORT-WAVE CW EXCITER/ TRANSMITTER by Ryan Communications; tiny 2"x4"

high quality circuit boards cover active segments of ham radio low band frequencies @ 1.25 W CCS from 12 VDC power input into 50 ohms resistive. Output increases from 0.75 W-2.5 W as input varied from 10-16 VDC. RF Harmonics > 30 DB. Has 2N3019 power amp transistor and double Pi-net. Provision for HC-6 -33 xtal; norm-open contact-closure required for output. #SW-2, 1.8-2.0 MHz, \$37; #SW-4, 3.5-4 MHz, \$30; #SW-7, 7-7.5 MHz, \$25; #SW-10, 10-10.6MHz, \$25; #SW-14, 14-14.7MHz, \$25; #SW-18, 18-18.9MHz, \$29; #SW-21, 21-21.9MHz, \$33



## Noise Activated Switch

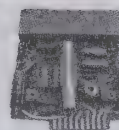


NOISE-ACTIVATED SWITCH with sensitivity adjust and mic; 6 VDC input, 2"x2". #54-91, \$1.75 ea

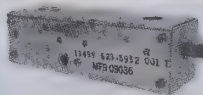
## S-Line Mechanical Filter

Circuit Board with #526-9310-009 mechanical filter model F455Q3. This "Y" style filter will fit S-Line equipment. 100K ohm in/out impedance. 3.5dB bw is 18kc, 70dB bw is 70kc. IF frequency of the filter is 455KHz.

The circuit board also has two 5636 sub-mini tubes and various resistors and capacitors. No further info on circuit board. 3.9x3.5x0.8, 2 lbs sh. #CB-MECH, Used, \$15.00 each



## Directional Coupler



Rockwell Directional Coupler for the AN/GRC-171B 20 watt, 200-400 MHz transceiver. SMA connector for RF input. RF output uses BNC connector. NOS# 5985-00-588-5285, 4.8 x 1.3 x 1.3, 1 lbs sh. #ROCK-DIR, \$30.00

225-400 MHz DIRECTIONAL POWER DETECTOR used in AM-6155 UHF power amplifier. Rated 65 watts forward; 15 watts reversed. Forward/ reversed DC output proportional to output/mismatch; sub-mini connectors provided. "N" RF connections; 4.5x1x1.3, 1#. Coaxial Dynamics #3023, Used, \$21.00



MANY ITEMS NOT LISTED - TELL US YOUR NEEDS



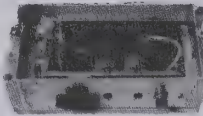
## VHF Doubler Module



A9 5820-00-411-1472 VHF DOUBLER BUFFER MODULE 116 - 150 MHz. Circuit consists of doubler, buffer and level/gain control. Transistors are 2N4072 doubler, 2N5109 buffer, 2N2222 gain control amp. Power required +20 VDC. W/schematic. 6.75 x 3.75 x 1.5 overall. 2 lbs sh. #Doub21-1472, \$12.95

**TRANSISTORIZED CRYSTAL OSCILLATOR and BUFFER,** 56 to 99 Mhz with 75 °C temperature controlled oven.

Requires 5th overtone HC-6 (20 pf) crystal (not supplied). Has external oscillator input plus tuning meter & oven output. Requires 12-18 VDC regulated for oscillator; 22-39 VDC 1 amp for heater. W/BNC and SMA RF connections; DEC-9P plug for power. Part of GRT-21/22 xmitters. 6.5x2x3.3, 3 lbs sh. #OSC-8004290G1, used with Schematic, \$9.95



## Carrier Monitor



Unit is used for remote check of xmitter operation. Good parts including 600 VDC 35 ma transformer; tubes 0A2, 6AL5, 6J6, 6X4; 600:600 ohm AF xformer, DPDT & SPST toggle switches two 49 pf trimmer caps, etc. LESS 3 pf 15 KV vacuum caps 6x8.5x6.3, 12 lbs.

#CAR-MON-87, unused, \$8.00

As above but w/ vacuum caps, #CAR-MON/VC, \$17

## Cubic R3030 IF Section

FIRST IF SECTION  
CUBIC FRONT END  
CONVERTER AMPLIFIER  
FROM CUBIC R3030 HF  
RECEIVER.



This module was the first gain and first conversion module in this premium receiver. First conversion used LO 40.455 - 70.455 Mhz, and second conversion used fixed LO of 40.455 Mhz to produce the IF output of 455 KHz. These oscillator signals came from another module which is not available. This module has the factory seals on it and is in excellent condition. 4.2x8.1x1, 3 lbs sh. #2140-1102, \$80.00

## GPS Board



**ROCKWELL SINGLE BOARD GPS.** This very small board is a self contained

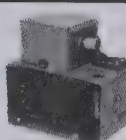
GPS Receiver Rockwell "Jupiter" GPS Receiver. Operates from 5 VDC with either an active or passive GPS antenna. 10KHZ output. NMEA output. There is a lot of info on the internet as well as data on part number TU30-D140.

Removed from equipment. 2 lbs sh., #GPSTU30-D140, \$79.50

For further information go to:  
[www.gpskit.nl/documents/rockwell/jupiter-gps-board.pdf](http://www.gpskit.nl/documents/rockwell/jupiter-gps-board.pdf)

## Discriminator

**PHASE & LOAD DISCRIMINATOR** determines if load is <, >, or = to 52 ohms; also if R, C, or L. 3rd output relative to antenna current; w/schematic. 2x3 x3, 2 lbs. #T201/180L, \$11.00



## Collins Modules

Speech Processing Modulator for the SSB ARC-38A transceiver with two each F250Z4 Collins mechanical filters 926-9130-921. Center freq 251.8khz. Contains microphone amplifier and speech clipper circuits, balanced modulator for USB operation. With tubes 5896, 6021, 2/5840, & 6112. 3 lbs sh. #SPM-ARC38, Used, \$40.00

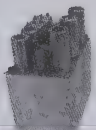
1 Mhz James Knights Modulator Crystal Oscillator plug in module. Output drives locked divider tubes to produce 500khz, 250khz, 100khz. Crystal oscillator module requires 28 VDC. 250 VDC and filament voltages also required for divider circuits. With tubes 5/6021, & 5636. With schematic. 3 lbs sh. #MCO-ARC38, Used, \$25.00

Collins 250 KHz IF assembly from ARC-38 transceiver. Has mechanical filters. F250A65 and F250Z4. Two 250KHz IF transformers. Tubes 5814, 3/5749, 5726. 3 lbs sh. #IF-ARC38, Used, \$35.00

250KHz Crystal Oscillator w/oven. 2/5749 tubes. #CO-250, Used, \$10.95



500KHz Crystal oscillator w/oven. With tubes 5654 & 5814. #CO-500, Used, 17.95



618S 250KHz IF Amplifier F250A67 250 khz mechanical filter 2/5726, 3/5749 3 lbs sh. #IFA-618S, Used, \$19.00

## BC-746 Tuning Units

BC-746 Tuning Units for the POGO STICK radio BC-745 / SCR-511 radio. We have the following:



Channel 2, 3825kc no crystal #746-2-NC, \$12  
Channel 4, 4845kc unused w/ crystal #746-4-WC, \$23  
Channel 9, 3655kc used w/ crystal #746-9-WC, \$18  
Channel 11, 4780kc no crystal #746-11-NC, \$12  
Channel 12, 5030kc no crystal #746-12-NC, \$12  
Channel 13, 5700kc no crystal #746-13-NC, \$12

## BC-347 Interphone Amp.



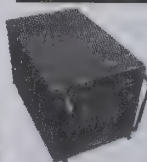
BC-347 Interphone Amplifier, Part of RC-34, RC-35 or RC-36. Power required 14 VDC & 150-250 VDC. 5.8x3.9x2.4, 4 lbs sh. #BC-347, Used, \$16.95

## Amplifier Converter

AM-6879 Amplifier Converter. 6.1x10.5x6.7, 16 lbs sh. #AM-6879, Used good condition not tested, \$550.00



## Control Boxes



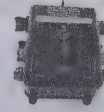
J-4024 INTERCONNECTION BOX, The J-4024/U is the interface between the TSEC/KG-84A and teletypewriter sets in GRC-106 communications shelters. Controls for transmitter 1 or 2, Receiver 1 or 2, power. Connections for teletypes and red transmitter/receiver, DLED.

15x8.1x8.1, 32 lbs sh., #J-4024, Used, \$45.00

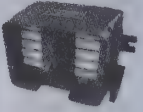
C-7827/VCC Terminal Set Control allows switching for simplex, single channel duplex, or multichannel duplex of VCC or MRC-110/PRC-25/77. 4.7x10.5x2.7, 8 lbs sh. #C-7827, Used, \$40.00



## Control Boxes



C-375 Control box for radio sets GRC-3--8 or VRC-8--10. Unit is a remote junction point and switching unit for the control and audio lines to two sets. 3.2 x 6.8 x 7, 6lb, #C-375, Unused, \$26.00



C-2742 VRC Remote Control Box works with the RT-246. 3.3x6x4, 4 lbs. #C-2742, Used, \$30.00



C-434 Local Control for GRA-6 system, Allows remote control of radio by field phone and wire. #C-434-U, Used, \$33.00

As above except. #C-434-UN, Unused, \$49.95

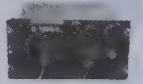
C-435 Control box, Used to duplex two GRC-3-8 LOCAL CONTROL p/o GRA-6, #C-435, Used, \$22.00

BC-616/ARC-5 Relay Junction Box for ARC-5 Radio System. #BC-616, Unused, \$20.00

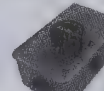


C-87/ART-13 Control Box for ART-13 transmitter. Has 11-position CHANNEL selector, OFF-VOICE-CW-MCW select, PTT button and IC jack. 3.5x6.3 x3.3, 3 lbs. #C-87, UNUSED, \$35.00

SB-327/ARC CHANNEL SELECTOR 24-51.9 Mhz FM in 100 KHz steps on 3-digit counter; used with RT-294/ARC-44 Tx-Rx. 3x5.8 x4.5, 3 lbs sh. #SB-327, used, \$35.00

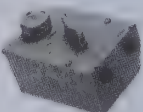


SWITCH BOX, #SA-474, \$12.00



BC-631 Remote Control Box for the SCR-522 radio set. #BC-631, Unused, \$12.00

BC-1366 JACK BOX, switch "Comp-Laison-Command-Inter-Call", Increase Output pot, 2 phone jacks. 3.3x4.8x3, 2 lb, #BC-1366, Used, \$12.00



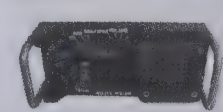
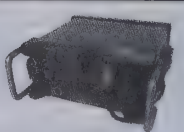
RM-52 REMOTE CONTROL for radio and intercom set. Has transformer, mic & phone jacks. Source for "Macy's Phone Patch" project. Less terminals. 7.3x3.5x5, 5 lbs. #RM-52, Used, \$5.00

C-11291 Control for Sincgars Radio PRC-119. 4.6x5.9x4, 5 lbs sh. #C-11291, Used, \$58.00



## GRA-39 Control

C-2329 Local Control from the GRA-39 control group. Has a mic amplifier gain of 55 db and a microphone pre-amplifier output of 5 mw. 8.8x8.9x4, 12 lbs sh. #C-2329, Used, \$69.50



C-2328/GRA-39 Control Front Panel with electronic components only. #FP-C-2328, Unused, \$99.00

Handset, #H-250, used checked, \$23.00

GRA-39 Manual Repro, #MM-GRA-39, \$18.00

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## Hardware

**HARDWARE ASSORTMENT** of washers, screws, nuts, rivets, terminals; 2 lbs sh. #HWA-2, \$2.50

**Dual Banana Plug - Red.** For standard banana jacks.  
#CM13R, \$1.09 ea; 3 for \$2.79  
**Dual Banana Plug - Black.**  
#CM13B, \$1.09 ea; 3 for \$2.79



**DUAL BINDING POST RED/BLACK.** For standard banana plugs. Distance between connectors is 0.79". Drill hole is 0.15" (x2). 1.5" x 1.3".  
#CM14R, New, \$1.59; 3 for \$3.99

As above but gold plated contacts. #CM15R, \$2.19; 2 for \$3.99

**BINDING POST** for Banana plug. Length is 1.7". Drill hole is 0.3".

Black color, New,  
#CM3B, 2 for \$1.19; 4 for \$1.99

As above but Red, #CM3R, 2 for \$1.19; 4 for \$1.99



**BANANA PLUG SCREW CONNECTION.** Solder connections. Length is 1.7".

New.  
Black color, #CM9B, 4 for \$1.00; 10 for \$1.99  
Red color, #CM9R, 4 for \$1.00; 10 for \$1.99

As above but gold plated.

Black color, #CM10B, 3 for \$1.29; 5 for \$1.89  
Red color, #CM10R, 3 for \$1.29; 5 for \$1.89

## HEX SPACERS

male-female thread or female-female (f-f):  
#HEX-(thread)-(length)

Length	per 20	per 100
4-40 threads 1/4" dia metal		
1.375	\$6.50	\$19.50
6-32 threads 1/4" dia metal		
0.375	\$3.50	\$12.00
0.625	\$4.25	\$14.00
0.75	\$4.50	\$14.50
1.5 (f-f)	\$5.00	\$16.50
1/4"-28 threads 7/8" dia:		
2.87	4/\$4.25	20/\$16

**TERMINAL STRIP** with 28 silver-plated 0.8"Hx0.4" dia spring push-down binding posts on 15.3x3.9 x0.4" thick black phenolic board. Phenolic may have minor chips; 4 lbs sh. #TM-184-PT, Used, \$23

Older version of above with 0.6" dia white-brass screw-down terminals, #TM-184-ST, used, \$26.00

**AUGAT** single 8-terminal PC mount: 2"Lx0.6"W:  
#4PCV-08, 10/\$8.50

**VARIABLE TERMINAL STRIPS**, pairs removable to decrease or increase length.  
#GE-V12-TERM, 12 terminal pair 1.3Hx8.3Lx2"W, \$3.50  
#BUC-V8-TERM, 8 terminal pairs 0.4"Hx3.5"Lx0.8"W, \$3

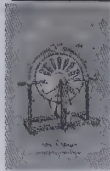
**SHOCK MOUNTS** you bolt to equipment.



STYLES: A B C

#SM-4A, 4 #, 2/\$1.20	#SM-6B, 6#, 2/\$1.20
-9A, 9#, 2/\$1.50	-12A, 12#, 2/\$1.75
-12B, 12#, 2/\$2.00	-15B, 15#, 2/\$2.25
	-50C, 50#, 2/\$3.50

## Various Books



**The Boy Electrician**, 1940 edition. Covers: magnets; static electricity and machines; voltaic cells and batteries; electromagnetism and magnetic inductions; electrical measuring instruments; bells, burglar alarms; telegraphy; microphones and telephones; inductions coils; transformers; radio receiving sets; an experimental "wireless" telephone; electric motors; dynamos and more. Practical how-to plans and advice to build and have fun with all kinds of electrical equipment. Many illustrations. 403 pages, #21648, \$19.95

**Dynamos & Electric Motors**, How to Make Them and Run Them. Chapters include: the Siemens dynamo, the Gramme dynamo, the Manchester dynamo, the Simplex dynamo, calculating the size and amount of wire for small dynamos, ailments of small dynamo-electric machines, small electric motors without castings, how to determine the direction of rotation of a motor, how to make a shuttle-armature motor, fifty-watt undertype dynamo, and a four-hundred-and-forty-watt Manchester type dynamo. Some of the motors and dynamos are small table-top machines which would make great experimental projects. Lots of illustrations. 160 pages. #22539, \$9.95



**Dangerous Electricity!** Collection of articles on high voltage and high power machines from Mechanics & Electricity Magazine and Modern Electrics Magazine before 1914. A Tesla coil you could build 18" high and 5" in diameter. Construction of a Tesla coil with a secondary wound on a glass jar. How to build a high-frequency resonator, an X-ray set. Insulating wire, building a spark gap, a motor-driven mercury interrupter. Articles on high frequency electricity, a carbon-arc furnace, a coil winding jig for secondaries, and a water rheostat. 64 pages. #23411, \$6.95

## Morse Code Training CD



**Morse Code Trainer CODE QUICK - THE FASTEST WAY TO LEARN MORSE CODE!** AUDIO CD and BOOK. Our technician here at Fair Radio, Gary Clements, insisted we carry this product. He said, "After only 2 weeks with this CD bundle I have passed my Element 1 Test and I am receiving code at over 6 WPM. This is an incredible technique that I highly recommend!" Six

audio cd package with 60 page textbook and humorous cartoon cards. 2 lbs sh. New, Drop Shipped from California via Priority Mail. #CODE-CD, \$50.00

**Code Quick 2000 Software** for Windows 95/98/ME or NT/2000/XP, New, Drop Shipped from California via Priority Mail. #CODE-SOFT, \$30.00

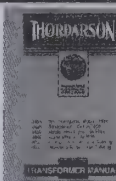
## Military Speakers / Amps

4"Speaker, ruggedized 8 ohm 2w perm. magnet type; 300-7khz resp. p/o of LS-166; 3 lbs.  
#LS-445, Used \$10.00

**AM-6747/V Amplified Speaker** for monitoring audio of R-442, RT-246/524 radios from remote location. Connection for H-189 or H-250 handset to allow remote keying of transmitter. Requires 28 VDC; can be modified for 12 VDC. Similar to AM4979; 5.6x5x3 + 2" top bolt; 6 lbs. #AM-6747, Unused, \$52.00



**AM-4979/GRC**, similar to AM-6747 but has 6 ft cord with U-229 plug. #AM-4979, Used need work, \$18.00



**THORDARDSON TRANSFORMER MANUAL**, Great for transformer reference, tube amp schematics and tube radio repair secrets. Full of info on schematics, parts lists, performance specs, etc on big push-pull audio amplifiers, modulators, microphone preamps, power supplies and almost any type of electronic gear that used transformers and chokes. 144 pp; #BK-THOR, \$11.95

**Secrets of Building Lightning Bolt Generators** - Walt Noon will explain the experiments he has run, the problems, the solutions, how to build low cost generators from parts on hand. In addition, build simple static machines, van de Graff generator, dirod generator, Pogeendorff corona motor and much more. 91 pp #BK-SCRT, \$8.95



**MANUFACTURE OF WIRELESS COMPONENTS**, Contains a series of articles showing how wireless components were fabricated with simple machine tools just after WWI. There are articles on making radio parts, jigs and fixtures, fabrication of honeycomb coils, manufacturing of moulded electrical and wireless parts, and more. 64 pp, #BK-MFG, \$6.95

**A THOUSAND AND ONE FORMULAS.** Back in 1920 people were hot to set up their own laboratories and invent something and become rich. Experimenter Publishing Company published books and magazines to wet their appetite. They repainted the best information from the magazines in this book. Get formulas on cements and glues, metal-craft, photography, chemical lab hints, mechanical lab hints, electrical lab hints, and many more. Fun and interesting read. 160 pp. #BK-1001, \$9.95



**SIMPLE SCIENTIFIC EXPERIMENTS.** Describes 46 instructive experiments in electricity, magnetism, hydraulics, hydrostatics, light and acoustics. From a century ago. Build a model hydraulic ram, acoustic fountain, flour explosive, manufacture of gas, static electric motor, cheap x-ray tube, electromagnet, gun, pea suspended in air, HF currents, decomposition of steam with induction coil, fiery or flaming vortex ring, thermo-electric currents and more. Simple, fun experiments. 69 pp #BK-SIMP, \$8.95

**New 3rd Edition Pocket Reference.** Over 750 pages of information for engineers, do-it-yourselfers, travelers, teachers, & students. Example of contents: Air & Gases, Automotive, Carpentry & Construction, Chemistry, Physics & Math, Electronics, Electrical Wire, Motors & Frames, Science & Geology, Hardware & Tools, Plumbing & Pipe, Weights & Property of Materials, Welding, Over 3500 Conversion Factors, and MUCH more!! 3.2"W x 5.4" H, #BK-POCKET, New, \$12.95



**TELEPHONES & MICROPHONES.** You get details on building simple telephones. And that in itself is an interesting little experiment in electricity, metal working, and woodworking. Also, get the details of building carbon mics, and magnetic earphones. You get details on wiring them up into working telephone system with batteries, bells, ringing key, induction coil and more. If you're looking for a science project or want to build your own radio equipment, or even build a replica of an early telephone. 80 pages. #BK-TELE, \$7.95

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## Old Radio Books

**CRYSTAL RECEIVING SETS.** How-to guide on building crystal sets and their components. Chapters include a simple and efficient receiving set, a single slider set, set with semicircular tuner, crystal set with tapped single coil, a loose-coupled set, set with plug-in basket coils, combined crystal and valve (vacuum tube) receiver, some miniature receiving sets, crystal circuits, how crystals work, making a buzzer, receiving CW signals on a crystal set, making a wavemeter from a crystal set, converting low-resistance phones, and the morse code. 125 pp #BK-CRY, \$10.95

### IMPOVERISHED RADIO EXPERIMENTER VOLUME 1

Contains tricks, tips, and secrets to help the builder of simple radios and electrical gear achieve high performance at minimal cost. Also: vacuum tube substitutions; inexpensive tube power supplies; grid leak detectors; regenerative receivers and more. 48 pp; #BK-IMP-1, \$5.95

**IMPOVERISHED RADIO EXPERIMENTER VOLUME 2.** Contains information on building a grid dip oscillator, a shortwave converter, a slow motion dial drive, space-wound coils and more. 48 pp #BK-IMP-2, \$5.95

**IMPOVERISHED RADIO EXPERIMENTER VOLUME 3.** Contains information on building an impedance bridge, a one-tube SW receiver, a headphone amplifier, old-time radio cases and more. 48 pp #BK-IMP-3, \$6.95

**IMPOVERISHED RADIO EXPERIMENTER VOLUME 4.** Contains info on building a TRF regenerative receiver, a one-tube crystal converter, a versatile power supply, a slide rule dial and more. 48 pp #BK-IMP-4, \$6.95

**IMPOVERISHED RADIO EXPERIMENTER VOLUME 5.** Contains info on building a superhet receiver, a coil winding machine, a simple alignment oscillator, IF transformer and more. 48 pp #BK-IMP-5, \$6.95

**The Impoverished Radio Experimenter Volume 6.** Build a loose coupler. An early form of a double-tuned RF transformer. Learn how to use a commonly available transformer to get high voltage for tube plates. Simple, low-cost regulator that will turn any power supply into a rock-solid performer. Build several loop antennas. Take a loop antenna and turn a basic Franklin oscillator circuit into a regenerative receiver for AM bands and lower. Take an oscillator circuit and turn it into a receiver by attaching filters for the various signals. Get notes on amateur band code transmitters from past QST articles. Schematics & basic info on single tube AM band transmitters. 48 pages. #BK-IMP-6, \$6.95

**OFFICIAL 1934 SHORT WAVE RADIO MANUAL.** Build simple, high performance old time shortwave radios! All of the secrets are here: the circuit diagrams, parts layout, coil specifications, construction details, operation hints, and much more. This is a compilation of construction articles from "Short Wave Craft" magazine. 260 pp, #BK-1934, \$15.95

**1935 Official Short Wave Radio Manual.** The most important developments in short-wave transmitter and receivers are covered in this new edition of the manual. Contains wiring diagrams and the values of the various condensers, resistors, etc., of all the principal short-wave receivers. Plenty of articles on small receivers and transmitters which can be built at a small cost. 240 pp, #BK-1935, \$18.95

**AMATEUR RADIO BEGINNERS GUIDE.** Learn how to build a regenerative receiver and a crystal controlled breadboard cw transmitter that will allow you to talk to people all over the world. Chapters include: introduction to amateur radio, learning the code, receiver theory and construction, crystal oscillator transmitter, two-stage transmitter, three-stage transmitter, construction of modulator for three-stage transmitter, and reference. 155 pp #BK-AMA, \$9.95

**SECRET - US AIRBORNE RADAR SETS Nov 1, 1944.** Covers basic information about the early radars that won WWII. Covers frequencies used, aircraft installed in, type of power output tube, various components of system. No pictures, sorry. A reprint by Sam Hevener, a well known WWII aficionado. 11X8.5, 176 pgs, #BK-1944, \$19

**U.S. Armor and Communications.** Reprint of info on various radio equipment and accessories used by the U.S. military during the 1970's. Used at Army Armor school Ft. Knox. 200+ pages. Tape bound. #BK-ARM, \$17.50

**BUILD A UNIVERSAL COIL WINDING MACHINE.** Shows how to build a coil winder like those available in electronics catalogs years ago from common, easily-obtained materials. This amazing machine will professionally wind universal and honeycomb coils, single layer and multilayer solenoids, close-wound and space wound coils, and even pi-spaced coils such as used for RF chokes and transformers. Loaded with illustrations, dimensions, and step-by-step text. 24 pp #BK-WIND, \$8.95

**Experimental Crystal Set Receivers Book.** Issues of Modern Electrics from 1911 and 1912 provided the Experimental Department where letters from experimenters were reprinted. Here you get the best of those letters. Illustrations of a wide variety of make-shift equipment that was being fabricated by impoverished experimenters. This isn't so much about crystal set circuits as it is about building the components needed. You get ideas on building coherers, variable and adjustable condensers, sliders for tuning coils, making a universal detector, galena detectors, and much more. 48 pages, #23276, New, \$6.95

**How to Build the Twinplex Regenerative Receiver.** Shows 3 different receiver projects. Build your own regenerative receiver using twin triodes or even a 3 transistor circuit. Sensitive and stable. Use old tube bases for coil forms. Build as a old time replica or with fet's and transistors. Schematics and chassis instructions. 63 pgs, #BK-TWIN, \$7.95

**VACUUM TUBE REGENERATIVE RECEIVER.** Build your first regenerative receiver. You'll see where the parts come from, how they're chosen, and how they're made to work together. This will be a real working receiver that was built from salvaged material on hand. Tube regen receiver are easy-to-build and very low-cost. 128 pp. Includes directions & schematics. #BK-REGEN, \$9.95

## Mag Amp Books

**"Magnetic Amplifiers", Magnetic Amplifiers Another Lost Technology** by the U.S. Navy (1951), edited by Trinkaus. First came the vacuum tube, then the transistor, right? Not really. In between there is another lost entity. Electronics engineers of the 1950's believed the rugged little magnetic amplifier was going to replace the fragile vacuum tube in all its functions under a megacycle. The mag amp not only can regulate but can magnify, modulate, switch, pulse-generate, invert, convert, multivibrate, phase shift, and multiply. Modulate your Tesla coil with a mag amp. 43 illustrations.

**"Magnetic Amplifiers Bibliography",** A supplement to Magnetic Amplifiers. Most of the citations are of patents you can still easily access. There are also citations of scientific and engineering journal articles, of military documents, and of proceedings of the Institutes of Electrical, Electronics and Radio Engineers. Entries range all the way from the year 624 BC to 1951. A must for further research into the lost technology of the magnetic amplifier. #BK-MAGNETIC, Get BOTH books! List Price, \$20.50; Our price, \$17.25

## Tesla Books

**"Tesla: The Lost Inventions",** Here are the suppressed inventions of Nikola Tesla. His later inventions, have never been utilized as Tesla intended despite their potential for advancing technology of modern civilization. Among these inventions: high-frequency lighting, the magnifying transmitter, a radical high-power radio, and many more. 42 illustrations. #BK-TLOST, List price, \$7.75; Our price, \$6.95

**"Tesla Coil",** You'll find a wealth of information on one of the best-kept secrets of electric technology, plus all the facts you need to build a Tesla coil on any scale. A well-tuned coil's output is harmless but can perform amazing tasks. Light your home, farm, or ranch at a fraction of the usual cost. Build a powerful radio transmitter. 26 illustrations. #BK-TCOIL, List price, \$7.75; Our price, \$6.95

**"Son of Tesla Coil",** Can Tesla coils do real work? Can they power an alternative fluorescent lighting? Build a "third generation" Tesla coil. Discover the magic of oil immersion, of close coupling, and of precise pulsing. Learn how to drive a Tesla coil from low-voltage battery power. Build a solid-state pulse generator and a Tesla lighting plant. Can battery-powered Tesla technology aid us in the next big blackout? Will Tesla be the next big step forward in home power? 40 illustrations. #BK-TSON, List price, \$7.75; Our price, \$6.95

**"Radio Tesla",** The Secret of Tesla's Radio and Wireless Power. This booklet details the radical radio technology of Nikola Tesla. Early elemental wireless devices like Tesla's and many others shown in this booklet are worthy of study because they remind us that powerful radio technologies can be so simple and accessible. Modern radio took a lot from Tesla, but what did it ignore? Also in these pages: grounding rediscovered, the suppression of amateur radio, radio-free energy and much more. 66 illustrations. #BK-TRADIO, List price, \$12.75; Our price, \$11.50

**"Tesla: The True Wireless",** In Nikola Tesla's own words, this is the inventor's final published statement on how radio, at the radical, really works. He insists that the amount of energy that can be transmitted is "billions of times greater" than conventional radio would allow. Can we transmit electric power to our homes and workplaces without wires? Can the unsightly and fragile grid come down? Tesla says Yes. 21 illustrations. #BK-TTRUE, List price, \$9.75; Our price, \$8.95



## Military Lists

Copies of mil-references

### Radio Lists

#TM11-487A Directory of Old Signal Corps...Radio Equipment, 8/ 1950. 4 pgs missing, 246 pp; \$25.95

#TM11-310 Schematic Diagrams of Signal Corp Ground Radio Equipment 1943-47; 32 selected vehicle & field radios; 228 pp. \$27.95

### Vacuum Tube Lists

Vacuum Tube compliments of Signal 10/44; tube line-ups of many vintage military & commercial radios. Also lists by tube # the radios in which tube is used. 192 pages, 3 lbs. #TO-08-1-25, \$22.95

Electron Tubes, Cross Index and Type Identification, Nov '63; comprehensive list of tubes used by the US military; 303 pages, #MIL-HDBK-213A, \$30.00

### German Lists

DIRECTORY OF GERMAN RADAR EQUIPMENT (US WAR DEPARTMENT MANUAL, TME 11-219, APRIL 1945) Pictures and drawings of German Radar Equipment to aid the recognition of equipment and components. I suppose this was part of the clean up of war material after the war. Reproduction 68 pages. #TME11-219, \$23.00.

German Explosive Ordnance ( Projectiles and Pojectile fuzes) 1953. 623 pages of various German projectiles. Each lists the German Nomenclature, Weapons, Projectile, Type, Charge. Cutaway views of projectile. Reproduction. #TM9-1985-3, \$36.95

SIGNAL COMMUNICATION EQUIPMENT DIRECTORY GERMAN RADIO COMMUNICATION EQUIPMENT (US WAR DEPARTMENT MANUAL, TME 11-227, JUNE 1944) Each radio has a picture, specifications, and a short comment about each receiver or transmitter. Reproduction 55 pages. #TME11-227, \$23.00

## Terms & Conditions

**TERMS** - Prices net, F.O.B. Lima, Ohio. Send Money Order, Certified Check, Visa, Master Card, or Discover with Purchase Order. We reserve the right to hold an order accompanied by personal or company check until after check clears the banks.

**MINIMUM ORDER** - is \$10.00 (\$25.00 outside U.S.) + shipping charges. Minimum charge on approved U.S. open-accounts is \$20.00 + shipping \$. COD orders permitted at our discretion, if customer provides 50% of total cash deposit. UPS COD fee \$9.00. Include sufficient money for shipping charges. (UNUSED-PAYMENTS RETURNED AT ONCE.) Otherwise we will hold order & advise charges.

**DESCRIPTIONS** - All material offered in this catalog is in "Used-Complete" condition, unless qualified and/ or noted as "Reconditioned", "Unused," or "New." Merchandise is not operationally checked unless specified as "Checked."

Equipment described as "Reparable"--meaning "able to be repaired"-- is electro-mechanically complete, but requires some trouble-shooting by the customer.

**DISCLAIMER** - Items in this catalog are "used" and/ or "obsolete" equipment which may not conform to current Federal laws governed by the Federal Communications Commission (FCC), the Occupational Safety and Health Agency (OSHA), the Environmental Protection Agency (EPA), and other federal and state governmental agencies.

Many items in this catalog have potential to produce harmful and even lethal electrical voltages. Proper and safe use of any item purchased is the customer's sole responsibility. The customer assumes all liability and holds Fair Radio Sales Co., Inc. harmless for compliance to current and future laws pertaining to the use and possession of equipment purchased, for any personal injury liability arising from improper and unsafe use of purchased equipment, and for any property damage caused directly or indirectly by equipment use.

**10 DAY RETURN POLICY** - Customer may return items for refund of purchase price of the item within 10 days of receipt of order. Authorization is required!

**DAMAGED MERCHANDISE** - Claims must be made within 10 days of receipt. Fair Radio reserves the right to repair, replace or refund at its discretion such merchandise. Unauthorized returns & claims beyond the 10 day period are subject to 15% or \$5.00 (whichever is greater) restocking charge. Returns and claims will not be accepted after 30 days of receipt of order!

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**TERMS:** Our terms are cash. All trade and cash discounts have already been deducted in our catalog quotations. We reserve the right to hold an order accompanied by personal or company check until after the check clears the banks. All prices are net, f.o.b. shipping point.

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Include sufficient money for postage. We refund unused amounts. Please send cash by registered mail only.

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SIGNATURE / EXPIRATION DATE

TOTAL FOR GOODS

STATE TAX (Ohio) 6%

For Postage and Insurance

Due from Previous Order

TOTAL

Please allow for shipping charges. Items over 150 lbs. shipped via truck-freight collect. Consult your local motor freight office.

**IMPORTANT:** Any correspondence not connected directly with this order should be placed on a separate sheet. This will speed handling of both order and letter.



## Knobs

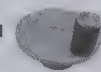


**ARMY SPIN KNOB**, retractable crank w/ beveled top-screw shaft. 1.5" dia; for RT-70 or GRC-106. #2313, \$6.00

**Spin Tuning Knob** for spline as used on ARN-6 and BC-229 and other sets that used MC-124 connections. #MC-127, \$8.50



**DUAL CONTROL KNOB** as used on H-P & TEK scopes; 1-3/8" dia skirted black base for 1/4" dia shaft with 3/4" dia red top knob for 1/8" dia shaft. #KN-DC-HP, used, \$1.50



**Volume control round knob** for BC-348. o/a 1 1/4" diameter. #KN348-1, Unused, \$6



**Fine tuning round knob** similar to GRC-9 knob with break and dial. Fits 3/8" diameter shaft. o/a 1 1/4" diameter. #KN312-1, Unused, \$12.



**Antenna alignment round knob** for BC-312/342. Fits 1/4" diameter shaft. o/a 1" diameter. #KN312-2, Unused, \$6.00



**Control round knob** for BC-312/342. Fits 1/4" diameter shaft. o/a 7/8" diameter. #KN312-4, Unused, \$6.00

**Medium bar knob** for various GRC radios. Top screw mount. o/a 1 3/8" L x 7/8" W x 3/8" H. #KNGRC-1, Used, \$3.50



**Volume control round knob** for various Hallicrafters radios. Fits 1/4" diameter shaft. o/a 1 1/8" diameter. #KNHAL-1, Used, \$3.50

**Fluted Knob with pointer**. Fits 3/8" dia. shaft. o/a 2 3/8" Diameter. #KNF-4, Unused, \$5.00



**Lever knob**. Fits 1/4" dia. shaft. Ideal for use with model train transformer. o/a 2 1/2" L x 1 1/16" W x 1/2" H. #KNL-4, Unused, \$3.00



**DARK BROWN fluted plastic 1" dia X 0.5" H** f/ 1930's & 40's radios. #KN-DB1, 4/\$2.00



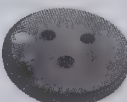
**Dark Brown Fluted Knob** for press fit shaft. o/a 0.9" dia #KNDBF-5, 5/\$2.00

**Rounded BAR KNOB**, 1-1/8" L x 3/4" W x 3/4" H. Brass insert f/ 1/4" dia shaft. #KNART13, 3/\$2.00



**Bar Knob with pointer**, 1.8" long. Fits 1/4" flattened shaft that is center drilled for hold down screw. #KNB-1, 4/\$2.00

**ALCO KNOBS**, modern plastic knobs with brushed aluminum inset. 5/8" dia x 3/8" H for 3/16" dia shaft, #ALKN6, 4 / \$1.50



**Round knob with spin crank**. Does not accept shaft. Mount to top of another knob. 3 mounting holes on top. O/a 1 3/4" diameter. #KNSP-1, Unused, \$2.50

**7/16" dia Round Knob** with brushed aluminum face. Push-on type fits 3/16" half round shaft. #KNRA-2, 5/\$2.00



**Round Knob**. o/a 1.4" diameter. Fits 1/4" diameter shaft. #KNR-5, 4/\$2.00

**Rounded Top Knob** with decorative ridges. o/a 5/8" dia. Fits 1/4" half round shaft. #KNR-6, 5/\$2.00



**Round Knob**. Fits 1/4" diameter shaft. o/a 1 3/4" diameter. #KNR-10, Unused, \$1.75

**Dark Brown Round Knob**. Fits 1/4" dia shaft. o/a 1 5/8" diameter. #KNR-13, Unused, \$3.50



**Large Bar Style Knob with pointer**. Fits 1/4" diameter shaft. 2 1/4" L x 1 1/4" W x 5/8" H. #KNB-2, Used, \$3.50

**Bar Style Knob**. Fits 1/4" diameter shaft. 2 3/8" L x 1 1/2" W x 1 5/8" H. #KNB-3, \$1.25



**Singers Knob**. Fits 1/8" diameter shaft. o/a 13/16" diameter. OD green. Unused, #KNSN-1, \$1.25; 6 for \$5.00

**Singers Knob**. Fits 1/8" diameter shaft. o/a 9/16" diameter. OD green. Unused, #KNSN-2, \$1.25; 6 for \$5.00



**Chicken Head Pointed Knob w/ 1/4" dia shaft**; 1.2" L x 0.6" H x 0.7" W. Made by DakaWare, #KN-CHK, \$2.00

Similar to above except 1.5" L x 0.9" H x 0.8" W. #KNP-1, 3/\$2

## Vibrators

Each of the vibrators listed below are \$6.50 each.

Part #	Pins	Volts	Part #	Pins	Volts
VB-9-C	4	?	JV0022	7	24
VS-3	6	6	M1503S	7	24
R111	6	?	V6778	7	24
V6702	7	2	V6675	7	?
			VB-13-A	9	12

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TERMS: All manuals include maintenance info & schematic unless noted otherwise:

O.I.= Operating info. N.S.= no schematic Repro= partial reproduction w/ theory, maintenance info & schematic

Part Number for manuals: Operating Info Manuals #OM-(specify set); All other manuals #MM-(specify set)  
For Comb Bound manuals just add "-CB" to the end of the part number. Example: #MM-R-392-CB

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12	\$5.00	\$8.00	757	\$1.75	\$2.95
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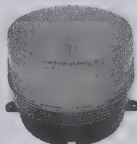
## Strobe Lights



**ELECTRONIC FLASHING LIGHT** for alarm systems, discos, personal use, warning in case of danger, etc... Long-life xenon tube. Fully sealed and waterproof. Power output: 1W. Power supply: 12VDC. Current: 150mA. Flash rate: 120/min. Black

ABS / acrylic cover, Dimensions : 2.8" (Ø) x 2.5". New, \$9.99 ea. Available in the following colors: Amber #HAA40A; Blue #HAA40B; Green #HAA40G; Red #HAA40R; Clear #HAA40W

**ELECTRONIC FLASHING LIGHT.** Flat lens. Requires 12VDC. Input current 85mA/1W. Flash rate 1.5Hz. Screw mounting. Suitable for indoors and outdoors. 3.9" x 3.1". New, \$19.99 ea. Amber, #HAA100A; Blue, #HAA100B; Red, #HAA100R; Clear, #HAA100W;



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Tektronix CRT'S used no burns. \$57.00 each

#154-0672-05 #T5810-31 (154-0354-00)  
#T0540-2 (154-0098-00) #T5471-31-2 (154-0568-00)

Others available - tell us your needs.

3" CRT Shield for 3RP1 etc. #SH-CRT-3, \$18.00  
5" CRT Shield for 5ADB7 etc. #SH-CRT-5, \$21.00

## Pilot Lights & Indicators

**SUB-MINIATURE NEON PILOT LIGHT** with 5/16" dia clear jewel. Base is receptacle for three 1/16" pins in triangle pattern. Mounts in 3/8" dia hole. O/a 1.4" L; includes neon bulb. #PIL007, 3 for \$1.00

**DIMMER LIGHT** w/ NE-51 bulb; 1/2" dia clear jewel. Fits 5/8" dia hole; o/a 3" L. #PIL-C433, used. \$1 ea

**LAMP HOLDERS** for 327 lamps; flt 1/2" hole. Flat WHITE numbered lenses; specify: "4", "5", "6", or "9". #0934, 3 / \$2.00

Pilot light w/ 327 lamp; white lens. Used #FLW-327, \$1.55



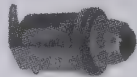
Dialco Pilot Light for S6 screw base. Red lens. Marked 75 watt, 125 volt. Unused, #PL-S6-S, \$3.50

Dialco Pilot Light with faceted lens for T6 1/2 double contact bayonet base. Amber lens. Marked 75 watt, 250 volt. Unused, #PL-T6.5-DC, \$3.00



Pilot Light for T1 3/4 midget flange base 327 bulbs etc. Red lens. Unused, #PL-T1.8, \$3.50 each; 10/\$30

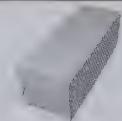
Pilot Light for T3 1/4 miniature bayonet base for 313 bulbs etc.. Amber lens. Unused, #PL-T3.3-A, \$3.50



Pilot Light for T3 1/4 miniature bayonet base for 313 bulbs etc... Green lens. Unused, #PL-T3.3-G, \$3.50

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Quality plain white boxes ideal for storing tubes or other components. Compare our price to the competition and save! No divider insert.



P/N	Dimensions	per 10	per 25	per 100	per 1000
CB6W	1.5x1x3	\$1.75	\$3.55	\$12.00	\$95.95
CB3W	1.5x1.5x4	\$2.00	\$4.20	\$14.25	\$109.95
SB16W	1.75x1.75x6	\$2.30	\$5.10	\$16.55	\$138.00
SB17W	2.5x2.5x6	\$3.00	\$6.55	\$20.95	\$169.50

## Tube Shields & Etc...

For most 7-9- pin mini tubes  
#TSH-(specify tube #) used, 2/\$1.00  
#TS103U02 SHIELD 12AX7-size, 2/\$1.50

BLACK IERC-Type SHIELDS, used:  
#TR5015 (6AK5), \$1.00; #TR6015 (5842) \$1.10

**TUBE TEST ADAPTERS** for TV-7, used:

#E104 for sub-mini tubes, \$5.75  
#E105 for septar 829/832, \$8.00  
#E107 for 2C39, \$8.00

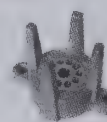


### OCTAL TUBE PULLER

Pull out octal tubes in those hard to reach areas. Stands around 6 3/4" tall. 1 lbs sh. #TP-7, \$7.00

### TUBE PIN STRAIGHTENER

for Mini 9 pin tubes. Stainless steel straightening area for years of use. 2 mounting holes 1 5/8" center to center. Unused, #STR-9, \$6.95



### --- OCTAL TUBE SAVER ---

Save those expensive octal tubes that have broken guide pins. Replace the broken guide pin by slipping this plastic piece over the proper pins. High strength/temperature plastic. Reuseable. #KY-1, New \$1.75; 10/\$13.50



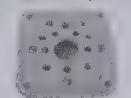
## Tube Sockets



4 pin Ceramic for 300B/2A3/811, 2 hole mount. #GZC4-1, Unused, \$2.95

4 pin Ceramic for 805/845/211, 2 hole mount. #GZC4-3B, Unused, \$6.95

4 pin Ceramic for 300B/811, with twist lock collar. #GZC4-1B, Unused, \$2.95

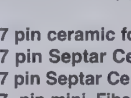


5 pin Ceramic Socket that fits a 4-125, 4-250, & 4-400 tubes, etc... #GZC5-A, \$7.95

5 pin Ceramic for 807, 2 hole mount. #GZC5-1, Unused, \$1.55

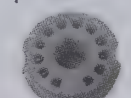
6 pin Ceramic 2 hole mount. #GZC6-1, Unused, \$1.75

7 pin Ceramic that fits 1625 tube, etc. #GZC7-13, \$1.95



7 pin ceramic for 813 tube 4 hole mt, #GZC7-A, \$4.95  
7 pin Septar Ceramic square, #GZC7-C, \$3.95  
7 pin Septar Ceramic Square, #SK-SEPT, Used, \$8.00  
7- pin mini, Fiber Wafer, #SK-7MF, new, 2/\$1  
7-pin mini, bakelite, #SK-7M, unused, 2/\$1  
7-pin mini, ceramic, #SK-7CER, unused, 2/\$1.50  
7-pin mini, moulded push-in w/ ridge, #SK-7MP-R, unused, 3/\$1.20  
7-pin mini, moulded push-in no ridge, #SK-7MP-NR, unused, 3/\$1.00

7-pin mini with collar for shield, #SK-7C, new, \$7.5  
7-pin mini ceramic w/ collar t/shield, #SK-7MC, \$1  
Octal Ceramic 2 hole mt. #GZC8-1, Unused, \$1.20  
Octal Ceramic PC mount. #GZC8-Y, Unused, \$1.20  
Octal bakelite, ring, #SK-OCT-R, used, 2/\$1.00  
9 pin mini Ceramic 2 hole mt. #GZC9-F, Unused, \$1.10  
9 pin mini Ceramic 2 hole mount w/ collar for shield. #GZC9-F-B, Unused, \$1.20  
9 pin mini Bakelite 2 hole mount w/ collar for shield. #PCP9-1, Unused, \$1.05  
9-pin mini ceramic w/ collar t/shield, #SK-9M, used, \$4.50  
9-pin mini PC mount black, unused, #SK-9PC-BL, \$1.50  
9-pin mini PC mount brown, unused, #SK-9PC-BR, \$1.55



12 pin Compacton Ceramic Socket that fits a 6KD6 tube, etc... #GZC12-F-1, \$2.95

SUB-MINI, round, long-lead, #SK-MIN, unused, \$1.00  
Acorn Flat Ceramic Socket #SK-ACORN, Used, \$6.00

4X150 Dual Socket Assembly from the T-195, two sockets on 4.3" x 2.9" chassis with 1.1" H bakelite chimneys; #4X150/T195, used: \$23; 2 for \$37.00

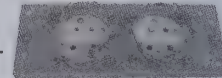


4CX250 Socket & Chimney Air system type socket with screen bypass capacitor. Comes with chimney. Works with tubes

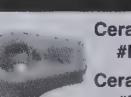
4CX250, 4X150, etc... #SK620, Used, \$28.

Two Johnson #244 Ceramic Sockets mounted on an aluminum plate 3" deep x 7.5"

wide. Each of the sockets has a 1 7/8" diameter removable mounting clamp. Works with C6M, 576 tubes etc. 3 lbs sh. #DUAL-244, Used, \$14.00



## Plate Caps



Ceramic Plate Cap for 1/4" diameter, #MCV, Unused, \$1.19 each; 5 for \$5.00

Ceramic Plate Cap for 5/16" diameter, #MCX, Unused, \$1.39 each; 5 for \$5.75

Ceramic Plate Cap for 3/8" diameter, #MCZ, Unused, \$1.59 each; 5 for \$6.50

Ceramic Plate Cap for 1/2" diameter, #MCD, Unused, \$1.99 each; 5 for \$7.50

**MANY ITEMS NOT LISTED - TELL US YOUR NEEDS**



## \$4.50 Unused / \$2.50 Used - Vacuum Tubes

- MANY other tubes available. Visit our website for a much more complete listing or tell us your needs.
- If you specify unused and unused is sold-out, we will ship used checked, unless you specify "unused only".
- Many tube types available in glass and metal. Please specify if you have a preference.

The tubes listed below are **\$4.50 unused** and **\$2.50 used**.

0A3 0C3 0D3 0Z4 1A5 1B3 1B4 1C5 1E7 1J3  
1L4 1N6 1P5 1R4 1R5 1S2 1S4 1S5  
1T5 1X2 1V2 1LA4 1LC5 1LD5 1LE3 1LN5

3B4 3D6 3Q4 3Q5 3S4

5A6 5AN8 5J6 5T8 5U8 5V6 5W4

6A6 6B8 6C4 6F8 6G6 6H6 6J4 6J5 6J6 6K4  
6L7 6N7 6R7 6S8 6T4 6T8 6U6 6U8  
6V3 6V7 6W4 6X8 6Z4

6AB4 6AB7 6AC7 6AF3 6AF4 6AF9 6AF11  
6AG5 6AG7 6AH6 6AK5 6AK6 6AL5 6AN5  
6AN8 6AQ5 6AQ7 6AS5 6AS6 6AU4 6AU5  
6AU6 6AU7 6AV5 6AV6 6AX4 6AY3 6BA11  
6BC5 6BC8 6BD5 6BD11 6BE6 6BH6 6BJ3  
6BK5 6BK7 6BN4 6BN6 6BQ6 6BQ7 6BU8  
6BX6 6BZ7 6CB5 6CB6 6CD6 6CF6  
6CM7 6CS6 6CS7 6CU5 6CU8 6CY5 6CY7  
6DA4 6DE6 6DG6 6EA5 6EB8 6EH4 6ES5  
6GJ7 6HB7 6HS8 6JT8 6JZ8 6LE8 6LU8  
6MN8 6SD7 6SF7 6SH7 6SK7 6SQ7 6SR7

7A4 7A5 7A6 7A7 7A8 7B4 7B8 7C4 7C7 7E6  
7E7 7J7 7K7 7L7 7Q7 7R7 7S7 7T7 7V7 7W7  
7X6 7X7 7Y4 7Z4 7AD7 7AG7 7AH7 7AK7 7AU7

12A6 12A8 12B4 12C8 12D4 12H6 12J5 12J7 12K7  
12K8 12L6 12V6 12W6 12X4 12Z3 12AC6 12AH7  
12AX4 12AZ7 12BA7 12BF6 12CA5 12SF5 12SH7  
12SJ7 12SK7 12SL7 12SR7 12SW7 12SY7

14A5 14B8 14C5 14C7 14E6 14N7 14R7 14W7

17D4 17AX4 17BF11 17GW6 19T8 19AU4 19X8  
21GY5 21JV6 25L6 25W4 25Z5GT 25Z6 25BQ6  
25DN6 32L7 35A5 35B5 35C5 35L6 35Z3  
35Z4 45Z5 50Y6 70L7 117Z4 117Z3 117Z6

34 35/51 36 38 39/44 43 55 57 58 77 78 79 89  
5651 5654 5670 5725 5726 5727 5750 5963 5965

6005 6136 6186 6888

7056 7167

9001 9002 9003 9004 9006

## Unused Tubes

UNUSED in original military or commercial boxes:

1B35	\$25.00	957,	958,	959,
1B36	\$39.00	acorn,		\$5.95
2C43	\$23.00	1619		\$7.00
2E26 RCA	\$6.00	5718		\$7.00
2K25 Raytheon,	\$36.	5719		\$10.00
3C23	\$32.00	5755	Raytheon,	
3D6,	\$7.50	\$2.95	10/\$25 100/\$195	
5A6,	\$8.00			
4D32 Raytheon,	\$17.50	5763 various,		\$9.95
10/\$165.	32/\$480.	5824,		\$13.50
6AH4,	\$10.00	5998A Syl,		\$16.00
6AJ5 Tungsol,	\$3.50	6080WC GE,		\$8.00
6AZ8 Ecg	\$6.95	6146W GE,		\$22.00
6B4GA, Sylvania	\$33.00	6159		\$17.00
6CB6A RCA,	\$3.00	6189W		\$7.75
6CG7	\$9.00	6336B Cetron,		\$45.00
6DC6 various,	\$6.50	6687		\$6.75
6DK6 GE,	\$3.00	6883B/8552 ECG,		\$15.00
6DQ6,	\$7.00	6888 Sylvania,		\$14.95
6F8,	\$7.50	6922 ECG, \$6.95	10/\$59.50	
6SG7	\$3.00			
6SH7	\$3.00			
6SJ7 Metal	\$7.00	7189A Int. SvcMstr	\$19.50	
6SL7	\$9.00	7193	\$6.25	
6Z4/84,	\$6.50	7308 Ampere,	\$14.00	
12AT7	\$8.50	7360 ECG,	\$29.95	
12BE6 GE,	\$3.25			
12DQ6,	\$9.00	NUVISTORS		
12SN7	\$5.50	7586	\$27.00	
24A or 27	\$9.50 each	7587	\$32.00	
30,	\$16.50	8056	\$18.00	
53	\$6.50	8058	\$35.00	
84	\$6.50			
717A	\$15.00	8533 Eimac,	\$15.00	
811A Made in China,	\$15	8552/6883B ECG,	\$15.00	
811A Cetron,	\$25.00			
884 or 885	\$7.50 each	26 SERIES TUBES		
954-955 acorn,	\$3.95	Used \$3; 26A7, 26E6		
		Unused \$5; 26D6, 26E6		

## Pull-out Sale

"pulled-out" of equipment-- NOT TESTED/ NOT GUARANTEED! (One tube type per quantity!):

10 for \$8.00; 100 for \$50.00  
6AC7 6AG5 6AH6 6AK5 6AL5  
6AS6 6CB6 6J4 6J6 6W4GT

OTHER "PULL-OUTS"  
10 for \$10.00. 100 for \$75:  
6AQ5 6U8 6005

## Sovtek Tubes

### Electro-Harmonix

A premium quality tube mfg by Sovtek. "EH" =

Type	Price	10-24	25+	Mtch Pr
6L6EH	14.25	13.25	12.25	32.55
6V6EH	9.95	9.50	8.95	20.00
EL34EH	12.25	11.70	10.70	28.45
12AX7EH	8.95	8.50	7.95	N/A
12AT7EH	9.95	9.50	8.95	N/A
12AU7EH	9.95	9.50	8.95	N/A
12AY7/6072EH	11.95	11.50	10.95	N/A

Other Sovtek tubes new:

Type	Price	10-24	25+
5AR4	11.95	10.95	9.50
5Y3GT	10.95	10.50	9.95
6BQ5/EL84	8.25	7.70	7.25
6L6GB	8.95	8.40	7.95
6SL7	9.25	8.80	8.25
6SN7	9.25	8.95	8.50
12AX7WA	8.40	7.85	7.40
6550WE	23.95	22.95	21.95

KT66 \$22.95 each; 10 to 24 pieces at \$20.95 each;  
25 and greater \$19.95 each  
\$49.95 for matched pair; \$99.90 for matched quad

KT88, \$24.95 each; 10 to 24 pieces at \$22.95 each;  
25 and greater \$20.95 each;  
\$53.95 for matched pair; \$107.90 for matched quad

## Used Tubes / Grab Boxes

USED-checked (US-mfg):

01A (ST), 17.95; 2E22, \$18.00; 3E29, \$9.00;  
5U4GB, 5Z3, \$4.75; 6AS7G, \$6.00;  
6JB6, 6LB6, \$12.50; 6SL7WGT, \$4.00;  
6V6GT, \$7.00, 24A, or 27, \$6.00;  
26, 42, 75, \$9.00; 45 ST, \$36.00; 71A, \$17.00;  
80, 807, \$9.00; 6080W, \$4.25;

### GRAB BOX TUBE SALE

3 lbs of varying types of unchecked or unused tubes. Randomly picked from our inventory of tubes of low demand. #TB-GB-3, \$20.00

As above but 6 lbs. #TB-GB-6, \$30.00

## Power Amp Tubes



4CX350F/J 26VDC Power Tube.  
Has a maximum plate dissipation of 350 watts.  
Removed from equipment, \$65.00

4CX300A / 8167, JAN Eimac Unused, \$45.00  
4X150D, 26 V filament, used STT, \$16.00  
4X150G, coaxial type, used STT, \$19.00

152TH Triode for modulators, oscillators, & amplifiers. 5/10 Volts at 12.5/6.25 amps. Large 4 pin base. Eimac/Eitel-McCullough mfg. Unused, \$100.

8906 tube is also a ceramic metal planar tube. Filament voltage 6V; Max plate watts = 10; Max plate volts = 2500. Used checked, \$60.00

7815 similar to 8906 but max plate volts is 3500, \$55

7554 HIGH MU TRIODE. Heater-cathode, ceramic-metal, pencil type used as rf amplifier, oscillator, and multiplier in airborne equipment. Used STT, \$29.50

## Unusual Tubes



No markings but looks like some kind image or photomultiplier with 14-pin basing. 4.8"Hx 2.3" dia glass + two 1/2"L contact pins opposite each on tinted end of cylinder; 1"L glass extension from side. #XTUBE-98, \$20.00

702B mfg by Sylvania. This unusual tube appears to be a special diode for UHF applications. Clear glass with gold plated rings. Great collectors piece! 1" dia x 2.3"H, Unused, \$15.



JAN 705A RECTIFIER, 4-pin base; 5"Hx2.3" dia. used \$4

GL-6044 oversize 6-pin w/ 4 tabs; 5.3"Hx2.3" dia. UNUSED, \$5.00

C6M THYRATRON, 8.5"Hx2" dia Used, \$4

## Klystron / TWT

6116 REFLEX KLYSTRON METAL VACUUM TUBE, a rugged version of the 2K45. Requires 6.3V at 762 milliamperes. Reflector voltage: -95 to -145. Frequency range: 8500-9660 MHz. Power output: 32 milliwatts. Output coupling: waveguide RG-52/U. Unused, \$29.95

SRL-7H for 2160-2400 Mhz; 6.3 V filament, -1000 VDC beam V; reflector volts -1300 to -2000 V. Coarse & Fine Tune slugs, N-conn & octal base. 6.5"x 5.2"x4.5", 4 lb unused w/info, \$49.50

VARIAN VA-98M/8901 KLYSTRON, 23.6 - 24.4 Ghz 100 mw CW; Eb=500 V @ 40 ma. 2.8"Lx 1"Hx1.3"D w/ 6"L wire leads; 2 lbs sh. NEW, \$125.00  
Filaments checked, but not guaranteed.

RCA 4012A/1157 TRAVELING WAVE TUBE, 2.0-4.0 GHz, 36 db min., 20 mw min. 15.5"LX3.5"Hx1.5"W. 4 lbs UNUSED, \$40.00

## Geiger Mueller Tubes



Geiger Mueller 5980 (also known as BS-2) Tube from the PDR-27 radiac set, Unused, \$35.00



Geiger Mueller 5979 (also known as BS-1) tube for PDR-27 radiac sets, Unused, \$39.50

## Antique Globe Tubes

Tubes below are used-checked;

01A, \$19.75  
224/324, 235/51, \$8.95;  
227/327, 239/44, \$11.95;  
226/326, \$13.00; 80/280, \$33.95; 245/345, \$69.00;

SEE A MORE COMPLETE TUBE LISTING AT [fairradio.com/tubes.htm](http://fairradio.com/tubes.htm)



## Sonalert - LOUD !!

2 to 6VDC Sonalert mounted on a 2" x 3 1/16" aluminum panel with 4 mounting holes. This unit is very loud at 2VDC and almost intolerable at 6VDC. 2 lbs sh. #SONA-6, Used Excellent, \$4.75

## Sounding Device

MINI PIEZO SIREN 6-15Vdc / 140mA 107dB LEAD TYPE. Made from high impact ABS plastic. Dimensions : 1.5" x 1.7" x 2.2". 1 lb sh. Mounting holes: 0.87". #SV/PS1, \$4.99

## Faraday Horn

FARADAY 48 VDC 100 ma HORN, made for Bell Telephone; makes loud, penetrating sound w/ screwdriver volume adjust. Steel construction; recess mount. Front size 4x4x1.3 1.3" panel depth. 3 lbs #KS-12037L2, New, \$6.95

LOUD BUZZER HORN as used in smoke alarms; 2" dia x1.3".

#41-81-6, 6VDC \$1.50 ea; #41-81-12, 12VDC \$1.60 ea

## Alarm Bell

ADAPTABEL INDUSTRIAL ALARM BELL, 5.8" dia bell operates from 6 VDC 250 MA for non-fire use. Heavy metal cast construction with mount hardware; 3 lbs. Edwards #435-6C1, new, \$12.00

## Speakers

3 X 5 SPEAKER, 1 watt at 16 ohms with 1.8" dia magnet; 1 lb sh. NEW, #SPK-3-5, \$1.50 ea; 10/\$12; 100/\$95

4" Square Speaker. 8 ohms rated at around 2 watts. 1 1/2" depth. 2 lbs sh. Unused, #SPK-4, \$3.95

2 3/4" Round Speaker with no mounting holes. 45 ohms rated at around 1/2 a watt. 1.1" depth. 1 lb sh. #SPK-2.75, Unused, \$2.50

## 7" Audio Tape

7" Professional Audio Tape by Ampex model 631. This is the 1.5 mil tape, 1200' of 1/4" tape. These reels of tape are excellent for DBX reels and others to decrease tape noise, consider by many as the standard for reel recording. These reels are truly the standard for audiophile recordings, and a must for the reel collector. 3 lbs shg on one. 10 lbs shg on twelve. #TAPE-631, Unused, \$3.75 each; 12 for \$39.95; 24 for \$65.95; 96 for \$150

## Transistor Audio Amplifier

TRANSISTOR AUDIO AMPLIFIER w/5-transistors, On-Off-Volume and Tone controls. Inputs for ceramic or crystal phono cartridges. Other possible uses as intercom, homebrew receiver, child's projects. Use with 8 or 16 ohm 3" or 4" speaker. Requires 6-9 V AC or DC; with schematic. 1.5 x 2.3 x 3.3. #ER-10-1231, NEW, \$3.50 ea; 2 / \$5.75; 6 / \$13.95; 100/\$150.00

## Battery Charger



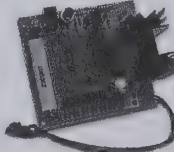
NI-CAD CHARGER PP-6241 SOLID-STATE BATTERY CHARGER for silver-zinc or nickel-cadmium types. Three independent charging units with out-puts 8-16-32 VDC or 0-36 VDC in 0.1 V steps; 1 or 2.25 amp charge. With cables

CX11971, CX11972, and CX11973. Requires 115 VAC 45-440 Hz input. 11.5x 13.8x11, 46 lbs. w/ book. #PP-6241-U, Used, \$45.00

## Charger/Conditioner Kit

Kit require insertion & soldering of components!

UNIVERSAL BATTERY CHARGER / CONDITIONER. NiCd and NIMH batteries or different can be charged both quickly (52 minutes) and normally (14 hours). Usable battery voltages: 1.2V, 2.8V, 3.6V, 4.6V, 6V, 7.2V, 8.4V and 9.6V. Charge current: from 15mA to 750mA. Battery is fully discharged prior to charging and thus has a longer life. 3.4"x3.1". #K7300, New, \$24.95 Recommended housing: #G311, \$7.56



## Audio Filter

AUDIO LOW PASS FILTER. No specs available, but output is good from 10 hz to the limit of the filter. The drop off is very quick. The circuit is passive and causes an approximate 50 % attenuation of the signal. The input impedance seems to be about 2400 ohms. 4.5 x 1.5 x .5,

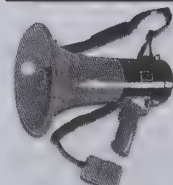
7.5khz LPF #FO70975, \$5.95  
15Khz LPF #FO69215, \$5.50

## Alarm Horn

Dual Horn Electronic Assembly made by Conair Division of General Dynamic. Operates on 28VDC 2 amps at 130DB plus. Will not operate properly on 12VDC. Comes in O.D. Green louvered housing. 17.2x13.8x14.8, 40 lbs sh. #76L2661-1, Unused, \$140



## Megaphone

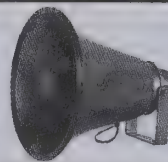


S25 Watt Hand-held Power Megaphone with shoulder strap. With siren, Detachable anti-howl microphone with coiled lead, On/off switch, Handle with on/off switch, Separate microphone with lock function, ABS housing, Microphone sensitivity: -

36±1dB (0dB = 1V/pa), Frequency response: 500 - 8KHz, Power supply: 12Vdc (8 x 1.5V D battery, not incl.), Horn dimensions: 9.5" x 13", Length: 14". #M25SM, List Price, \$85.00; Our Price, \$75.90

## PA Horn Speaker

Aluminum Horn Speaker 40 Watt, Round 12", Dark Gray, Frequency response: 250 - 6000Hz, 8 ohms, SPL: 106dB, 12.4" x 11.1", 7 lbs sh. #PAH4012T, New, \$49.95



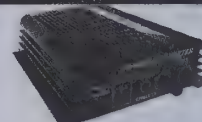
## 50 Amp P.S. Chassis



PP-4763/GRC POWER SUPPLY, produces 28 VDC 50 amps from 115 VAC 22 amps 47-63 Hz 22/11 amp input; solid-state with +/-0.5% regulation. Has meters 0-50 VDC and 0-80 amps DC; 13.5x 19.5x15, 145 lbs. #PP-4763-LM, Used less control card, both mtrs, and circuit breaker, \$140.00 Manual repro, #MM-PP-4763, \$18.00

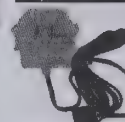
## 24V - 12V Converters

24VDC TO 12VDC 20 AMP CONVERTER. Compact design for in-car use. Input 24VDC. Output 12VDC. Maximum current 20 amps. Banana plugs. Fuse protected. Drop shipped from Texas. #PSDC20, New, Regular Price \$79.90; Our Price, \$58.95



24 - 12 VDC Converter. Compact design. Input 20-30VDC. Output 12VDC. Maximum current 5 Amps. Cigarette lighter plug. Fuse-protected. 3 lbs sh. #PSDC05, New, \$21.95

## Wall Transformers



AURORA TOY WALL TRANSFORMER, changes 120 VAC to 9.5 VDC 350 ma output. 6' cord with slide lugs; 2 lbs sh. #AUR-95V34VA, 2 / \$4.50

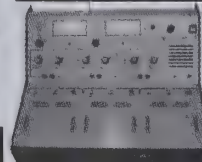
CERVCO AC ADAPTER, 11.5 VAC 175 ma out-put; 6' cord w/o lugs. #CER-11.5V, 2 / \$3.50

Secondary 8VAC 375ma Wall Transformer by Hewlett Packard. 120VAC Input. #82059D, Unused, \$2.00

13 VDC 1 Amp Wall transformer from 120VAC input. 6 ft cord w/ "Barrel Type" DC power connector O.D. 5.0mm; I.D. 2.5 mm. 2.6x 2.2x3.4, 2 lb, #TAACA0201, \$3.00



## Electronic Trainer



Nida Trainer Model 130, Originally for electronic class troubleshooting instruction. This unit is power supply and test frame only, no test circuits. plus and minus low voltage power supply each 6, 9, 12, 15 volts and variable to 24 vdc current limited 25, 50, 75, to 100 ma variable. Also high voltage 50, 100, 150, 200 to 250 vdc variable with current limit of 10, 20, 30, 40 to 50 ma variable. Large voltmeter and milliamper meter to monitor the output. Mini toggle switches under front panel to switch problems into circuit. This would make nice tube/low voltage breadboard station for your shop. Requires 115VAC 60Hz. 14.7x18x9, With Schematic. 25 lbs sh. #NIDA-130, Used, \$57.00

## Industrial Transformers

Taps 90 thru 3KV at 20KVA at any tap #3KV-20KVA, \$999 (Primary 160V 137.5A) 5 - 3000Hz One Phase 20.3x16.5x22.5, Open Frame, Approx. 500 lbs

115/270V 4.9KVA 10x9x9.7 (C) 100 #44-115V-4.9KVA, \$275 115/135V 2.7KVA (600VAC only primary)

71V 53.5A 8.7x9x9.2 (C) 80 #44-71V-53.5A, \$225 (Primary 200/230/380/415/460/575VAC)

229V 70A 3 Phase Y 22.5x11.3x18 (C) 400 #SHED-Y, \$695 (Primary 420/440/460/480/500V 37-31A)

230V 250KVA 5.8x5.4x5.9 (C) 19 #42-230V-250KVA, \$42 (Primary 208/270/325/380VAC)

PLACE YOUR ORDER OVER THE WEB AT FAIRRADIO.COM



## Low Voltage Transformers

All 120 VAC 60 Hz primary unless otherwise noted; styles as indicated; may be "used" or "unused": Dimensions listed below are case only, so make allowance for terminals. Weights listed below are considered SHIPPING weights. Limited stock.



STYLES (A) (B) (C)

**SECONDARY SIZE STYLE WT STOCK # PRICE**

2.5VCT 10A, 2.2x3.7x2.4, (C) 3 #166S2, Hammond Mfg, New, \$20.36; 4 pcs \$17.48 ea

5VCT 3A, 1.8x3.3x2, (C) 3 lbs sh. #166MS, Hammond Mfg, New, \$12.54; 6 pcs \$10.86 ea

Two 5 V 3 A 3x3.3x3.4 (C) 7 #P-6333 \$19.95  
7.5/6.3 VCT 3 amps, 6.3 VCT 4 A

6.3V 1A 1.7x1.9x2.9 (A) 3 #38-6.3V-1A, \$5.00

6.3VCT 4A, 1.8x3.3x2, (C) 3 lbs sh. #166N6, Hammond Mfg, New, \$17.85; 5 pcs \$15.19 ea

6.3VCT 10A, 2.25x4.1x2.7, (C) 4 lbs sh. #166S6, Hammond Mfg, New, \$29.24; 3 pcs \$24.92 ea

12 V 9 amp, 5.3x4.3x4.8(C) 22 #P-601719 \$10.95  
12 V 3.2 A, 12 V 2 A, 44 V 2.5 A. (12 V windings can be wired to produce 12 V 14 A)

12.6VCT 4A, 2.13x3.7x2.4, (C) 3 lbs sh. #166N12, Hammond Mfg, New, \$21.96; 4 pcs \$18.71 ea

12.6VCT 8A, 2.5x4.5x3, (C) 5 lbs sh. #166R12, Hammond Mfg, New, \$30.45; 3 pcs \$25.85 ea

14VCT 2A, 1.8x2.7x2.2, 3 #F-251X, \$7  
Open Frame

16.5 VCT 2 amps 2.6x2.5x2 (C) 2 #BE15869 \$5.00

18V 5.4A, 4.5x4.8x4(C) 16 #401-21 \$10.95  
26 V 1 A, 6 V 900 ma, 25 V 500 ma, 35-10-0-10-35 V 5 A

18 V 1.5 A, 3x4x3.5 (C) 7 #BE12696 \$6.00  
19 V 2.5 A, 10 V 4 A

22VCT 3 Amps 3.8x3x4 (B) 8 #3S92890015 \$11.95

80VCT 1.5 Amps

24V 20VA, 2.1x2.6x2.5, (B) 2 #6-24V-20VA, \$4.95

Taps 24/19/10V 1KVA at any tap 6x11x14 (A) 84 #M1539,\$99

25VCT 8 A 4 x 3.6 x 5.3 (A) 13 #200P25GT \$16.95

25.2VCT 2A 2.1x3.9x2.6 (C) 4 #F-41X, \$10.00

29.2V 2A 3.5x3.9x3.5 (A) 7 #612-29.2V-2A, \$10.00  
22.5V 2A

2x30 V 250 MA 1.8x2x1.5(C) 1 URC#60605 \$3.00

30 VCT 560 ma 2.5x2.3x2 (C) 2 #401-6 \$3.50  
40 VCT 450 ma

32 V 3.5 amps 3.3x2.8x2.3(C) 4 #2-111219 \$6.95

32 VCT 1.5 A; 2.5x2.6x2.1(B) 3 #142259 \$4.95

35 VCT 1A 2.5x2.8x3(B) 3 #1341155-2 \$3.00  
Rusty condition

36 VCT 2A 2.9x3.5x2.3 (B) 3 #SR-448 \$5.95

38VCT 1.4A 2.2x3.3x2.3 (B) 4 #203A6725, \$6.00  
5V 1 amp

38.9V 4A 2.6x3.8x3.5(C) 5 #021/0220050 \$8.75  
tapped 26-9-3-0.9 V, 150 VCT 200 ma

40VCT 1A 2.2x3.7x2.2 (C) 4 #URC56000, \$6.00

46VCT 1.5A, 3.3x3.9x5.5, 11 #43-46V-1.5A, \$11  
74VCT 150ma,

70 VCT 5 A, 4.5x4.8x4 (C) 16 #401-21 \$10.95  
tapped 20 VCT; 18 V 5.4 A, 26 V 1 A, 6 V 900 ma

80VCT 1.5 Amps 3.8x3x4 (B) 8 #3S92890015 \$11.95  
22VCT 3 Amps

90VCT 2A, 4.1x3.4x2.9, (C) 9 #24-90V-2A, \$17.00

Dual 90V 2.5A, 3x5.2x4.4, (C) 13 #20-90V-2.5A, \$23  
tapped on each of the 95V windings at 60V,  
32 vct around 200ma

Dual 95V 2.5A, 3x5.2x4.4, (C) 13 #28-95V-2.5A, \$26  
tapped on each of the 95V windings at 60V,  
32 vct around 200ma

100V 8.5A 7x6.1x6 (C) 33 #42-100V-8.5A, \$62.00

## HV Transformers

**SECONDARY SIZE STYLE WT STOCK # PRICE**

375 VCT 50 MA 2.5x3x2.6 (B) 3 #B316527 \$7.50  
6.3 V 2 amp (230 VAC only primary)

380VCT 65ma, 6.3 V@2.5 A, 2.7x2.2x2.7, 3 lbs sh.  
Hammond Mfg, New, #269EX, \$36.69; 3 pcs \$30.63 ea

500VCT 125ma, 6.3V 1A, 2.9x2.5x3.3 (B) 5 #TR180, \$18

520VCT 90ma, 6.3 V@3.5 A, 3x2.5x3.2, 5 lbs sh.  
Hammond Mfg, New, #270DAX, \$46.62;  
2 pcs \$41.91 ea; 4 pcs \$39.41 ea

550VCT 200ma, 5 VCT@3 A, 6.3 VCT@6 A, 4x3.2x3.9,  
10 lbs sh. Drop shpd from NY. Hammond Mfg, New,  
#270HX, \$65.00; 2 pcs \$61.31 ea; 4 pcs \$58.99 ea

600VCT 250ma, 5 VCT@4, 6.3 VCT@8 A, 4x3.8x4.6,  
11 lbs sh. Drop shpd from NY. Hammond Mfg, New,  
#272JX, \$67.19; 2 pcs \$63.44 ea; 4 pcs \$60.94 ea

640VCT 128ma, 3x2.9x3.9, (C) 6 #TF1A03YY, \$24.95  
6.3 V@5.3 A, Epoxy Coated.

640VCT 150ma, 5 VCT@3 A, 6.3 VCT@5 A, 3.5x3.2x3.9,  
9 lbs sh. Drop shpd from NY. Hammond Mfg, New,  
#276X, \$66.56; 2 pcs \$62.81 ea; 4 pcs \$60.31 ea

700VCT 175ma, 5 V@3 A, 6.3 VCT@5 A, 4x3.2x3.9,  
10 lbs sh. Drop shpd from NY. Hammond Mfg, New,  
#273BX, \$65.00; 2 pcs \$61.31 ea; 4 pcs \$58.99 ea

750VCT 175ma, 5 VCT@3 A, 6.3 VCT@6 A, 4x3.2x3.9,  
10 lbs sh. Drop shpd from NY. Hammond Mfg, New,  
#274BX, \$65.00; 2 pcs \$61.31 each; 4 pcs \$58.99 ea

800VCT 200ma, 5VCT@3 A, 6.3 VCT@6 A, 4x3.2x3.9,  
11 lbs sh. Drop shpd from NY. Hammond Mfg, New,  
#278X, \$76.79; 2 pcs \$73.04 ea; 4 pcs \$70.54 ea

800VCT 465ma, 6.3 VCT@6 A, 5x3.8x4.6, 18 lbs sh.  
Drop shpd from NY. Hammond Mfg, New, #278CX,  
\$81.40; 2 pcs \$77.65 each; 4 pcs \$75.15 ea

850VCT 150ma, 5 V@3 A, 6.3 VCT@5 A, 4x3.2x3.9,  
10 lbs sh. Drop shpd from NY. Hammond Mfg, New,  
#279X, \$70.51; 2 pcs \$66.76 ea; 4 pcs \$64.26 ea

920VCT 50-70ma, 4.4x5.1x6, 17 #52-920V-50MA, \$27  
1240VCT 50-75ma,

1000VCT 200ma, 5 VCT@3 A, 6.3 VCT@6 A, 4.5x3.8x4.6,  
14 lbs sh. Drop shpd from NY. Hammond Mfg, New,  
#282X, \$82.91; 2 pcs \$79.16 ea; 4 pcs \$76.66 ea

1900VCT 30ma, 4.3x4x6, 12 #51-1900V-30MA, \$28  
1150VCT 50ma,

## Misc Transformers

MODULATION TRANSFORMER Pri: 5500 ohm 235  
ma or 2000 ohm 300 ma. Sec: 200 ohm 20ma 90  
watts max. 3.1x3.5x2.9, 4 lbs. #677-0923, used, \$10



"ISOLATION" TRANSFORMER pri  
115V 60 Hz; sec 105 VAC 500ma  
3.5x3.5x2.5, 6lbs. #45099037, \$7.50

TRANSFORMER-POWER SUPPLY Pri: 2 x115 VAC  
48-62 Hz. Sec: 570 VCT 200 MA, 25 VCT 1.2 amps,  
6 V 8 A. On chassis w/sockets for two 26Z5 tubes;  
20 lbs. #PS-R390A, used, \$35.00

## Chokes



Swinging Choke, 1.5MHy at 200maDC,  
460UHy at 4 ADC, DCR 0.24ohm. 1.7 dia.  
x 1.4 ht, 2 lbs sh. #TW-64713, \$12.00

1.5 MHY/3.0MHY 11A/1A swinging 6.8v-120cps .07  
ohm 2x2.3x3, Sealed frame, 4 lb, #103-1.5MH-11A, \$11.50

C-114 LOADING COIL, adds 88 mH inductance to  
field phone wire increasing effective range 125+%.  
Water tight case; 4 lbs sh. #C-114, Used, \$12.00

5Hy 150ma, 105 ohm, 400VDC, 2x3.3x2, (C) 3 lbs  
Hammond Mfg, New, #158Q, \$19.26; 4 pcs \$16.64 ea

8Hy 100ma, 259 ohm, 400VDC, 1.8x3.3x2, (C) 3 lbs  
Hammond Mfg, New, #157M, \$21.48; 4 pcs \$18.34 ea

8Hy 128ma, 200 ohm, 505VDC, 2.2x2.3x3.1, (C)  
Epoxy Coated. 3 lbs sh. #TF1A04YY, \$15.00

10Hy 100ma, 262 ohm, 400VDC, 2x3.3x2, (C) 3 lbs  
Hammond Mfg, New, #158M, \$19.02; 4 pcs \$16.46 ea

15Hy 100ma, 256 ohm, 500VDC, 2.3x4.1x2.7, (C) 4 lbs  
Hammond Mfg, New, #159M, \$24.42; 4 pcs \$20.62ea

20Hy 100ma, 181 ohms, 600VDC, 3.3x2.5x3.1, (B) 5 lbs  
Hammond Mfg, New, #193C, \$34.35; 3 pcs \$28.48 ea

## Audio Transformers

**Primary Secondary**

50 ohms 30ma 500 ohms 400 to 1900 Hz Mic  
Transformer 1.5x1.3x1.5(A) 1 lb #T204/PP115 \$4.

100 ohm to 200 ohm Driver Transformer. No fur-  
ther info. 1x2x1.2, (C) 1 lb sh. #TR65, Unused, \$4.

100 ohms 100K ohms; input transformer,  
2.1x2.2x3.2 (A), 2 lb #T3/AM20, \$10

2/ 300 ohms 15 ma DC, Sec: 600 ohms, + 9dbm 100  
- 3500 hz, 1.4 x 1.4 x 2.3, Made by UTC H-9985,  
#225C1015, \$10.00

600 ohms 8 ohms 2 watts, 1.6x"H x 1.3" dia.  
Removed from LS-166, #T1/LS166, \$19.00

10000 ohms 12ma DC, Sec: 8 OHMS, 100-3500 HZ,  
1.5 X 1.5 X 2.3 H, #225C1010, \$15.00

10000 ohms 600 ohms, 100 mw, 200 - 20000 hz,  
DC current 0 Zero, Made by Freed.  
1.3 x 1.3 x 2.3, #27780 \$15.00

Pri: 60000 (1.5 ma 90v), tapped 12500 (6.5 ma 90v)  
Secondary 600 ohms tapped 8 ohms, 200 - 3800  
hz 200mw, 1.5 x 1.5 x 2.5, #TR-1017, \$18.00

Audio transformers which we were told were from  
Altec/Altec Lansing Public Address amplifiers. We  
have no specific data on these, but offer them to  
those who may know what they are. All ohms list-  
ed below are DC resistance.

Pri. 0.5 ohm; Sec. 8.7 ohm tapped 8.4, 8.3, 8. Open  
frame, 2.7x3.7x2.3, 4 lbs sh. Sam Woo mfg.  
#050-7000-00, \$6.00

Pri. 0.3 ohm; Sec. 3.7 ohm tapped 3.65, 3.6, 3.5.  
Open frame, 2.9x3.4x2.8, 6 lbs sh.  
Sam Woo #50-7001-00, \$9.00

Tamradio #302216, Winding(1) 19.3 ohms, (2) 5.7  
ohms CT, (3) 3.4 ohms CT, (4) 5.2 ohms CT,  
(5) 20.4 tapped 17.1 ohms, (6) 21.5 tapped 16.7 ohms.  
Open frame, 3.1x3.2x2.8, 5 lbs sh. \$6.00

## TRIAD TRANSFORMER

#TY-61X TRANSISTOR DRIVER 100 ohms 100 ma :  
100 ohm CT, 50-10KHz 500 mw. 2.7x1.5x1.5. \$5.00

**MANY ITEMS NOT LISTED - TELL US YOUR NEEDS**



## Switching Power Supplies



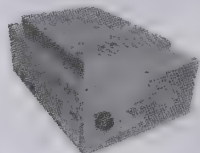
**HEAVY DUTY SWITCHING SUPPLY**, outputs +5 VDC 28 amps, +12 V 4 A, +24 V 1.5 A from 115 VAC 60 Hz in. W/ ON-OFF switch, & 16-pin Molex output connector. "AS-IS" complete, no schematic" 2x5x13, 6 lb #SWPS-528, \$8.95

**SWITCHING POWER SUPPLY** with 3" axial fan. Outputs +5 V 10 amp, +12 V regulated 2.5 A, +12.5 V 5 A unregulated from 115 VAC 50/60 Hz input. P/o Wang equip. 2.6x5.1 x12.5, 7 lbs. #12690, \$17.00



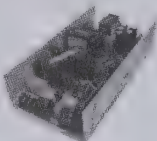
**POWER SYSTEM** switching supply, outputs +5 V 7 amps, +12 V 3 amps, -12 250 ma, -5 300 ma from 115/230 VAC 50-60 Hz input. 7.8x 4.4x1.5, 3#. NEW: #PS1558, \$18.00

**Switching Power Supply**, Outputs: 5VDC 20A, 15VDC 2.5A, -15VDC 1.0A, 24VDC 4.0A. Housing is perforated. Requires 115/230VAC 50/60 Hz. Xentek Inc mfg. 10.9x7x4.2, 7 lbs #SX200-81605, Used, \$10.00; 4 for \$34.00



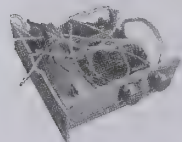
**Switching Power Supply**, Outputs: 5VDC 21A, -5.2VDC 7.5A, 12VDC 4.7A, -12VDC 1.5A. Each output has a potentiometer adjusting the voltage +/- 1 volt. Perforated housing with a heatsink on top. Requires 115VAC 60 Hz. Various mfg. 10.9 x 7 x 4.2, 15 lbs #A3060884, Unused, \$12.00; 3 for \$29.95

**24VDC 11 amp output switching power supply** which DOES WORK with the R-392 and GRC-106 Receiver / Exciter. Requires 115V or 230V 60Hz. Made by Acme Electric Corporation. 9.5x5x2.5, 6 lbs sh. #25A1, Used, \$55



## Power Supply Modules

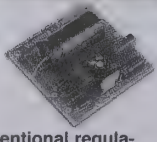
**+5/-5 V 3 AMP REGULATOR BOARD**, up to 24 VDC unregulated. Capacitors two 15000 mf 15 V, 33000 mf 30 V. Two each BKC rec-tifiers, 2N6576, 2N4441 SCR. 7.8x6x4; 3 lbs sh. #MEND-REG-5V, \$6.00



**REGULATOR MODULES** from Sun supplies, each with current limit and voltage adjust. Includes bridge rectifier, filter capacitor, two 2N3055 or equal and 723 regulator; 2 lbs sh. No further info. #SUN-REG-124, 12 V 4 amp, \$12.00 #SUN-REG58, 5 V 8 A w/OVP, \$10.00

## Power Supply Kit

**1A POWER SUPPLY KIT**. This small power supply provides a regulated voltage, adjustable between 1.5 and 35 volts at 1 Amp. With the LM317 regulator remarkably better ripple and regulation characteristics are given with conventional regulators. Current limiter and thermal overload protection are included in the IC. Supplied without heatsink. Output current: 1.5A max. Max. dissipation: 15W (cooled). Max. input voltage: 40VDC. PCB dimensions: 2.1" x 2.1". #K1823, \$13.98



## Power Supplies



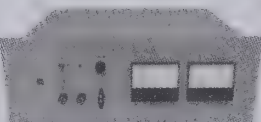
**5 VDC 3 AMP EXELON DC REGULATED SUPPLY**, and 12 VDC 0.1 amp output from 115/230 VAC 47-63 Hz input. 5x5.3x2.8, 4 lbs. #PS-1545, NEW, \$12.00

**12 VDC 1.5 AMP DC POWER SUPPLY**, Adjustable +/- 2.25 volts. Requires 115 VAC 60 Hz; Mfg by ACDC Electronics. 4.9x6.3x3.4, 7 lbs sh. #10-4131-045, Unused, \$23.00



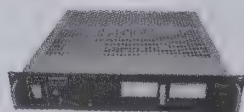
**COLECO DISK DRIVE POWER SUPPLY** for ADAM system; trans-former type with outputs +5 V 3 amp, +12 V 2.9 A, -5 V 200 ma, and +18 V inductive 1 A. 115 V 60 Hz input. With cords and On-Off switch. 11x4x8, 10 lbs sh. #COL72559, unused, \$12.00

**Linear Regulated Power Supply** by Lambda, adjustable 20VDC +/- 5% at 5 amps. Perforated housing. Requires 205-265VAC 55-65 Hz. 10x4.9x4.8, 17 lbs, #LM-CC20-V, Used, \$52.00



**rackmount Lamp Power Supply** by Westinghouse covering 12 to 65VDC at 3 to 9.5 amps from an input of 115/230VAC 60Hz. The power supply does have a current adjust but does NOT have a voltage adjust. The voltage is directly relative to what the current is set at. Has 2.9"H x 3.5"W panel meters for Amps and Volts. Running time indicator. 15.5x19x7, 49 lbs sh. #WE-65, Unused, \$139.50

**Sorensen DCR40-13B Rackmount Power Supply** 0 to 40 V @ 13 A. Low-level remote sensing, manual & automatic control, direct & master-slave paralleling & series operation. Low ripple and noise. Fine/coarse adjustments for current and voltage. Large analog current and voltage meters. Power required 115 V 50/60 hz, 19x21x3.5, 48 lbs sh. #DCR40-13B, Used Checked, \$325.00

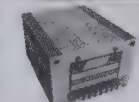


## H V Supply



**HIGH VOLTAGE POWER SUPPLY**, input 120 VAC 60 Hz. DC outputs: -8000 V 0.25 to 1 ma, +120 V 15 ma, +24 V 1.25 amps, +16 V 450 ma. 4x9.5x4, 17 lbs sh. #GE9T63Y2280G03, Used, \$14.95

## Acopian Power Supplies



**Acopian Gold Box Series Power Supplies**. Fully enclosed with terminals for wire connection. Perforated covers. Each unit is linear regulated and requires 105-125VAC 50-400Hz. Removed from lightly used equipment. Nice & clean.

2V 6.0A, #A2MT600, \$23.00  
2V 12.0A, #A2MT1200, \$29.00  
+/- 5V 2.5A, #VTD5-250, \$29.00  
5V 5.0A, #VRB5G500, \$23.00  
5V 5.1A, #VA5MT510, \$23.00  
5V 6A, #VA5MT600M, \$23.00

5VDC 12A, #VA5MT1200, \$40.00  
5V 17A, #VA5H1700, \$35.00  
5V 22A, #VA5H2200, \$40.00  
5V 32A, #VA5H3200, \$52.00  
12V 6A, #VA12MT650, \$95.00  
±15V 400 MA, #VTD15-40, \$40.00  
±15V 500MA VFD15-50A, \$40.00  
±15V 2.5A, #VTD15-250, \$90.00

15v 3.0A, #VRB15G300, \$85.00  
±15V Dual Track 4.5A, #VTD15-450, \$110  
18V 2.1A, #B18G210, \$29.00  
18V 6A, #VA18MT650, \$58.00  
20V 16.0A, #VA20H1600, \$85.00  
24 V 750mA, #B24G75, \$23.00  
0-50V 1.2A, #A050MX120, \$58.00  
200v 100ma, #B200GT10, \$145.00

## 5 - 24 VDC Power Supply



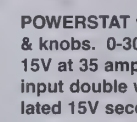
**COMPACT SWITCHING POWER SUPPLY**, 20 selectable outputs: 5 to 24V DC in steps of 1V (from 4.3 to 1.5A) Power: 36W. Get rid of those bulky power-hungry heat-producing adapters. These adapters use state-of-the-art switching power supplies and feature some major advantages such as: - cooler running - stabilized output - short-circuit and overload protection - compact design - very low idling consumption. Comes with 8 detachable DC plugs. Ideal for notebook computers & personal digital electronic devices. Requires 100 ~ 240V AC. Output plugs: 2.5mm mono, 3.5mm mono, 1.0x3.0mm, 1.35x3.5mm, 1.7x4.0mm, 2.1x5.0mm, 2.5x5.5mm, 1.5x5.5mm. 3.5"x1.8"x1.2", #PSSMV7U, New, \$45.95

## Variable Transformers

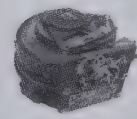
- - OTHER RATINGS AVAILABLE - -  
Tell us your needs!

All variable transformers listed below are used good condition unless otherwise specified.

**GENERAL ELECTRIC VARIABLE TRANSFORMER**, input 120 VAC 60 Hz. Isolated output 0-60 VAC. Maximum current load: 5 amps. Two units wired in series will produce 120 VAC output. Coil not enclosed; dial plate & knob not included. 4.4" dia X 4"H; 6 lbs GE #9T92A1515, New, \$24.00; 2 for \$39.95



**POWERSTAT** variable transformer, no dials & knobs. 0-30V at 25 amps 60 Hz or 15-0-15V at 35 amps 60 Hz out from 120/240 V input double wound; Actually has two isolated 15V secondaries. Great basis for a 12 or 24 volt power supply. Enclosed, motorized 3 section (3 phase). 12" dia X 30"H, 90 lbs. #DMLW-136BT-3, \$225.00

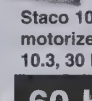


**380 HZ VARIABLE TRANSFORMER**, input 120 VAC 380/1000Hz; output 0-120 VAC 380/1000 Hz 13 amps. 7x6.2x3.3, 9 lbs. #GA5065OL \$21.00

+++++  
Variable transformers listed below are 240VAC 60Hz Inputs; not enclosed. Used unless otherwise stated.



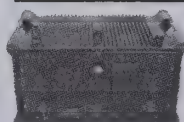
**Powerstat 9 Amps 0-240V**, Input 240V, motorized, perforated sides. 9.1x9.5x10, 30 lbs, #2388-10698, \$100.00



**Staco 10 Amps 0-240V**, Input 240V, motorized, perforated sides. 8.9 x 9.5 x 10.3, 30 lbs sh, #033-7015, \$115.00



## 60 Hz - 400 Hz Converter

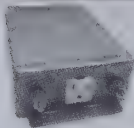


**Static Frequency Converter**, Input 120V 60Hz to 117V 400Hz 500 watts single phase. Overload protection. With maintenance manual, power input cable and connector for output. 21x12x15, 120 lbs sh. Unused, #CV-2488, \$330.00

**CHECK OUT OUR LATEST FEATURE ITEMS AT FAIRRADIO.COM**



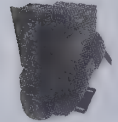
## Inverters



12 VDC to 120 VAC 60 HZ INVERTER, rated 200 watts continuous; 600 W surge. Output is squarewave with zero-crossing. Has studs for input & 3-cond outlet. 3 x 7.5 x 4.8, 7 lbs. #RC-12200, New, \$59.50

ROTARY INVERTER, output 115 VAC 400 Hz 1 phase 750 VA from 28 VDC 60 amp input; Leland or =. 12x9.5 x 7, 42 lbs sh. #INV-750, Gov't-Recond, \$67.00

INVERTER, like above except 750 VA out from 28 VDC 60 A in; 9.3x16.5x7, 40 lbs sh, #PU-16, \$40.00



Motor Generator for GRC-106 Model SS688. Input 27.5VDC 24 Amps. Output 115VAC 60Hz 3.48 Amps. Continuous duty. 3600 RPM. 12x6.5x12, 47 lbs sh., #SS688, Used, \$75.00

400 HZ INVERTER KIT removed from PP-2352; good foundation for 28 VDC to 115 VAC 400 Hz 500 watt 1 phase inverter. Includes oscillator feedback, driver, output, & regulator transformers, two saturable reactors & schematic info. Add other components to suit your power needs; 10 lbs #KIT400HZ-500W, \$58.00

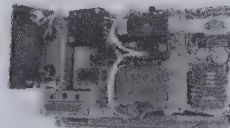


400 HZ SOLID STATE INVERTER KIT will produce 115 V 400 Hz at a current and voltage dependent on the transformer you use. Supplied parts include, special feedback transformer, resistor/diode boards, two transistors on heatsinks which when combined with your center tapped transformer will produce 400 Hz power. For 12vdc operation use a 20-26 vct transformer. For 28 volt input use a 40-52 vct transformer. With schematic & info. #INV-47, \$23.00

Power units FROM AM-3349 see better pictures at our web site.

### DC-AC 400 HZ INVERTER.

Input 26 VDC, Designed outputs 120 VPP 400 Hz and 156 VPP 400 Hz. Also 12.6 VPP 400 Hz 600 ma for filaments. Components mounted in irregularly shaped casting. Transformer is not removable. Removed from equipment. With schematic. 2.3x6.6x4.9, 5 lbs sh. #2A6A1, \$30.00



Inverter from AM-3349 which contains the DC - DC supply for the High voltage power supply that powered two 4CX350F tubes to 400 watta PEP. Power input is

24VDC. This supply produced 500 VDC plate and screen grid supply for 8233 driver tube, and screen grid for PA tubes. Also 2400 VDC plate voltage for PA tubes. Transformer and components are mounted to irregularly shaped casting. With schematic. 7x18x6.9, 21 lbs sh. #3349-INV, \$58.00

## Dynamotor Supplies

#D-10A Used, \$23.95;  
#D-401 Used, \$15.00  
#DM-36 Re-new, \$18.00  
#DM-53-24, 24V Used w/ base, \$12.00  
#DM-53-12, 12V Unused w/ base, \$23.00  
#DY-9 or equal from ARC1, \$17.00  
#DY-86 from ARN-30, \$24.95;  
#DY-107 Used, \$43.00  
#PE-98 14V Used, \$35.00;  
#PE-133 Unused, \$18.00

#2C4312/B50 Hinge Set f/ DM-21 in BC-312, Used, \$15

## NTE Semiconductors

NTE Cross Reference CD, \$5.00

NTE Cross Reference Book, \$4.95

NTE#	DESCRIPTION	PRICE	NTE#	DESCRIPTION	PRICE
2V130	MOV 130V RMA	\$1.97	580	RECTIFIER-600V3A FAST RECORD	\$3.44
85	T-NPN SI GENERAL PURP AMP TO-92	\$1.02	588	DIODE-SI 200V 3A ULTRA FAST DO-27	\$1.76
109	Diode-Germanium Gen Purp 75PRV DO-7	\$1.80	618	DIODE-AM RADIO TUNING DIODE	\$2.99
112	DIODE-SI-UHF TV/MIXER DO-7	\$1.57	778A	IC-DUAL OP AMP 8 PIN DIP	\$3.81
116	RECTIFIER-SI 600V 1A DO-41	\$0.79	941M	IC-FREQ COMP. OP AMP 8-PIN DIP	\$1.07
123	T-NPN SI-AF PREAMP/DRIVER TO-39	\$0.70	955M	IC-TIMER/OSCILLATOR 8-PIN DIP	\$1.86
123A	T-NPN SI-AF/RF AMP TO-18	\$1.59	960	IC-POS VR 5V 1A TO-220	\$3.73
123AP	T-NPN SI-AF/RF AMP TO-92	\$1.33	966	IC-POS VR 12V 1A TO-220	\$3.93
125	RECTIFIER-SI 1000V 2.5A DO-41	2/\$0.89	987	IC-QUAD OP AMP 14-PIN DIP	\$2.48
125-10	Pack RECTIFIER-SI 1000V 2.5A DO-41	\$3.49	1866	IC-LED VU Scale Meter Driver 9-PIN SIP	\$2.14
125-100	Pack RECTIFIER-SI 1000V 2.5A DO-41	\$28.99	2018	IC-8 CHAN CMOS/TTL DR 18-PIN DIP	\$3.81
128	T-NPN SI-AF PREAMP DRIVER TO-39	\$2.17	2331	T-NPN SIHI VLTG Horiz Switch w/ Damper	\$9.98
128P	T-NPN SI General Purpose AMP TO-237	\$1.54	2343	T-NPN SI Darl Power Amp/Switch TO-220	\$2.36
129	T-PNP SI-AF OUTPUT TO-39	\$2.40	2353	T-NPN SI COLOR TV HORIZ OUTPUT	\$10.51
130	T-NPN SI-AF POWER OUTPUT TO-3	\$4.30	2389	MOSFET-PWR N-CHAN HI SPD SW TO-220	\$7.67
135A	ZD-5.1V 1W DO-41	\$0.66	2395	MOSFET-PWR N-CHAN HI SPD SW TO-220	\$5.29
142A	ZD-12.0V 1W DO-41	\$0.66	3041	Opto Isolator/NPN Transistor Output	\$2.11
145A	ZD-15.0V 1W DO-41	\$0.66	4006B	IC-CMOS 18 STAGE 14-PIN DIP	\$3.00
156	RECTIFIER-SI 1000V 3A DO-15	\$1.40	5077A-2	pack ZD-18.0V 1W DO-41	\$1.98
159	T-PNP SI-AF PREAMP DRIVER TO-92	\$1.74	5304	RECTIFIER-SI BRIDGE 400V 1.5A	\$1.73
172A	T-NPN SI-DARLINGTON AMP TO-98/92	\$0.98	5322	RECTIFIER-SI BRIDGE 200V 25A	\$4.80
177	Diode-SI Gen Purp Det 200 PRV DO-35	\$1.19	5332	RECTIFIER-SI BRIDGE 600V 1A	\$1.67
181	T-NPN SILICON AUDIO AMP TO-3	\$8.50	5342	RECTIFIER-SI BRIDGE 600V 40A	\$11.99
184	T-NPN SILICON AUDIO PO TO-126	\$2.45	5344	RECTIFIER-SI BRIDGE 1000V 40A	\$12.99
185	T-PNP SILICON AUDIO PO TO-126	\$2.75	5800	RECTIFIER-50 PRV 3A Axial Lead DO-201	\$0.51
199	T-NPN SI-LO NOISE TO-92	\$1.17	5801	Rectifier-100 PRV 3A Axial Lead DO-201	\$0.76
253	T-NPN SIL DARL80V HFE-2000 TO-126	\$2.37	5804	Rectifier-400 PRV 3A Axial Lead DO-201	\$1.18
261	T-NPN SIL DARL80V TO-220	\$2.66	5809	RECT-1000 PRV 3A Axial Lead DO-201	\$2.60
262	T-PNP SIL DARL80V TO-220	\$2.38	5812	RECTIFIER-100 PRV 6A	\$1.58
263	T-NPN SIL DARL80V TO-220	\$2.80	5814	RECTIFIER-400 PRV 6A	\$1.84
287	T-NPN SI-HI VLTG Gen Purp AMP TO92	\$0.88	5815	RECTIFIER-600 PRV 6A	\$2.89
289A	T-NPN SI-AF POWER OUTPUT TO-92	\$1.56	5817	RECTIFIER-1000 PRV 6A	\$3.70
290A	T-PNP SI-AF POWER OUTPUT TO-92	\$1.62	6419	SIDAC 110-125V	\$2.76
291	T-NPN SI-POWER OUTPUT/SW TO-220	\$3.49	7407	IC-TTL Hex Buffer/Driver 14-Pin Dip	\$1.57
303-5	Pack HEAT SINK COMP'D 1 GRAM	\$2.77	8085	THERMAL FUSE 87°C	\$1.60
331	T-NPN SI-AUDIO PO/SWITCH TO-220	\$3.66	8090	THERMAL FUSE 93°C	\$1.60
373	T-NPN SI-AF DRIVER TO-126	\$1.98	8098	THERMAL FUSE 100°C	\$1.60
378	T-PNP SI-Power Driver/Output TO-220	\$3.38	8103	THERMAL FUSE 104°C	\$1.60
399	T-NPN SI-VIDEO OUTPUT GIANT TO-92	\$3.60	8118	THERMAL FUSE 121°C	\$1.60
422-2	Pack Insulator Kit for TO-220 Package	\$1.96	8139	THERMAL FUSE 141°C	\$1.60
423-2	pack IC SOCKET 8PIN DIP	\$1.34	8181	THERMAL FUSE 184°C	\$1.60
458	JFET-N-CHAN GEN PURP AMP TO-92	\$1.99	8213	THERMAL FUSE 216°C	\$1.60
506	RECTIFIER-SI-HI CUR/FAST SWITCH	\$1.96	8242	THERMAL FUSE 240°C	\$1.60
519	DIODE-SI FAST SWITCHING DO-35	\$1.19	75189	IC-DTL QUAD Line Driver 14-PIN DIP	\$2.14
552	RECTIFIER-SI 600 PRV 1A DO-41	\$1.59	TP0001	Thermo Pad for TO-3 - 5 Pack	\$1.66
558	RECTIFIER-SI 1500V 1A DO-41	\$1.69	TP0002-100	Thermo Pad for TO-66 - 100 Pack,	\$17.95
570	D-SI CONTR AVALANCHE 135V TO 180V	\$1.58	TP0004	Thermo Pad for TO-126 - 5 Pack	\$0.89
574	R-SI 400V 1A FAST RECOVERY DO-41	\$0.62	TP0006	Thermo Pad for TO-220 - 5 Pack	\$1.22
576	RECTIFIER-SI 400V 5AMP 35NS DO-27	\$1.70	TP0007	Thermo Pad for DO-5 - 5 Pack	\$1.34
577	RECTIFIER-SI 1000V 5AMP 70NS DO-27	\$4.33	TP0010	Thermo Pad for TO-3PML - 5 Pack	\$2.20

## Regulators / Conditioners



ONEAC power conditioners combine an isolation transformer with power conditioning to protect your equipment. Various power connections are available. Made by ONEAC.

Input 120 VAC 16 amps 60 Hz.

Output 120 VAC 16 amps.

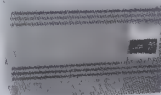
15.3x9.5x8, 60 lbs sh., #CB1120, \$135

Input 208 VAC 12.6 amps. Output 240/120 VCT 10.4 amp. 18.3x10.5x10.5, 95 lbs sh. #CS2328-8, \$115.00

Input 208 VAC 20.8 amps. Output 240/120 VCT 17.4 amp. 18.3x10.5x10.5, 95 lbs sh. #CS2348-8, \$135.00

Input 120 VAC 12 amps. Output 120VAC 12 amps 50/60 Hz. 15.3x8.5x5, 45 lbs sh. #CS1115R, \$115.00

WANG POWER CONDITIONERS, electronic line voltage regulators with full magnetic isolation protects computer & similar equipment from line voltage surge or "sag" damage. Provides "clean" 120 VAC 60 Hz output from inputs of 90 to 135 VAC 60 Hz. Low input shutdown @ 50% of nominal. OVP shutdown @ 12% above max output. 7.8x13x10.4: 1000 VA output with one large L5-20R receptacle; 45 lbs sh. #SC-100A-PC, New, \$225.00



50 Hz Sola Regulator. Input 110/120V 2.8 amps; 220/240V 1.4 amps; 380/415V 800ma. Output 110/120/220/240 volts 250VA. Output 110/120/220/240 volts 250VA. Used, #63-23-125-4, \$58.00

## Solar Cells



Solar Cells with Trickle Charger Power: 1.5W maximum. Voltage output: 12V (± 20%). Nominal voltage: 14.5V. Current: 125mA. Built-in protection

to prevent current reversal. Included accessories: Lead wire with cigarette lighter plug, Lead (3m) with 2 battery clamps, and 4 suction cups (for mounting). 13.4" x 4.7" x 0.6", 3 lbs sh. #SOL5N, \$35.95

DC Voltage Controller for #SOL8 and #SOL5N. Provides low voltage, overload protection to solar panel and storage battery. Used for lighting, camera, recorder, etc... Output DC voltage: 13.0V ± 10%. Output DC current: 4A max. Input voltage (battery): 13.5V ± 10%. Over-discharge protection voltage: <= 10.5V. Overcharge protection voltage: >= 15V. Solar panel: working current: < 5A, open voltage: 21 ~ 24V. Suggested type of rechargeable battery: 12V / 10 ~ 40Ah sealed lead acid battery. Working temperature: +14F ~ +107F, humidity: <= 80%. 4.7x3.1x 0.9, #SOL4UCN2, \$35.95



Encapsulated Solar Cell 0.5 volt at 800mA, 2.6" x 3.7" x 0.2", #SOL2, \$8.59 each; 6 to 23 pieces \$8.09 each; 24 & up \$6.89 each

Similar to above except 2 volts at 200mA, 3.0" x 3.7" x 0.2", #SOL4, \$9.39 each; 6 to 11 pieces \$8.84 each; 12 & up \$7.53 each

PLACE YOUR ORDER OVER THE WEB AT FAIRRADIO.COM



## Other Semiconductors

2N3716, \$2.50 2N4126, 5/\$1.25 2N6292, 2/\$1.25  
2N3739, \$2.50 2N5428, \$1.25 2N6675, \$4.50

### REGULATORS

1.2-37V 1.5A out; 0.03% load reg., #LM-117K, \$4.00  
30W 3 amp 5V positive regulator, #LM-123K, \$2.25  
Negative adjustable regulator, #LM-137K, \$2.25

### Metal Oxide Varistors "MOV"

#S14K130 130V \$1.50, #S14K175 175V \$1.75  
#Z510LA40A 820VDC 110 Joules, \$1.50

### IsoTop Power MOSFET

Power MOSFET, Low gate charge- Fast Switching  
Rds on 0.180 ohm, Id continuous 40Amps Pd watts  
690, Ciss(pf)11715 Qg (nC) 468, removed from equip-  
ment, no hardware. Hardware required is metric.  
15/16"D x 1 7/16"W x 7/16"H, #APT8018, \$17.00

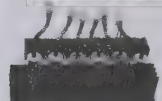
Rds on 0.150 ohm, Id cont. 38Amps, Pd watts 520,  
Ciss(pf)5540 Qg (nC)242 removed from equipment, no  
hardware. Same style as above. #APT6015, \$16.75

## Rectifiers

1 AMP 50 PIV, #1N4001, 20/\$1.20  
1 Amp 400 PIV, #1N4004, 15/\$1.20;  
1 Amp 1000 PIV, #1N4007, 10/\$1.20  
12A 100V, #1N3890, 4 for \$3.50  
35A 100V, #1N1184, Used, \$1.50  
200 PIV 300 A; 4" tail. #D-R610-0230, Used, \$10.00  
RF DIODES: 1N21, \$1.50; 1N23, \$3.00

Motorola MR1265FL Rectifier rated 300 PIV 650  
amp; with hardware. 3.3x2.3x3.3, 3 lbs New, \$21.00

## Diode Heatsink Assembly



with six MR-1815-SL 300 PIV  
100 amp diodes; heatsink  
2.6x9.4x4.8, 4 lbs sh.  
#DHS6-1815, \$34.95

SILICON CONTROL RECTIFIER  
assembly single phase half-wave;  
GE #C1411CX5 or equivalent. Rating  
approx 500 V 35 amps. 7x6.3x5, 4 lbs  
sh. #KS-19576L1, Used, \$7.95



POWER HEATSINK with  
SCR Westinghouse  
T600121504BT. This series  
is 1.2KV. Could not find  
specs but it should be at  
least 125 Amps. Also, diode

IR 150K120A 1.2KV 150 Amps MOV V510PA80C. No  
specs on this but it is large. Heatsink 7.75" x 6" x  
3", 8 lbs #T600121504BT, \$14.95

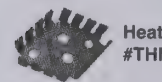
## Heatsinks



Heat Sink Bonanza!!! Get 10  
pounds of various heatsinks in  
different shapes & sizes with or  
without diodes & semiconduc-  
tors. #HEAT-10GB, \$12.00

As above but 25 pounds. #HEAT-25GB, \$23.00

1.75" square Heatsink for one TO-3.  
Has 4 mounting holes. #680-75A,  
Unused, \$1.50

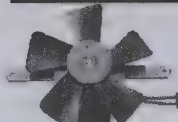


Heatsink for one TO-3. 1.9" x 1.4",  
#THM-6013, Unused, \$1.25

3x4.5x1.3 for two TO-36, #2T34513, \$1.50 ea

HEATSINK, 5x3x1.6; drilled for 3 large stud recti-  
fiers (1" dia recesses), #3D528-8, \$2.50

## AC Fans

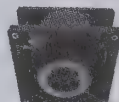


5-BLADE COOLING FAN, 4.6"  
dia rotation; no enclosure.  
Mounting bracket hole centers  
5.9" apart. 115 VAC 60 Hz. 2 lbs  
shipping. Mfg by Airtrol.  
#11-2100, New, \$5.95

AXIAL FANS, 4.7" sq X 1.5" thick; 115 V 60 Hz.

5-BLADE in metal frame; 18 W.  
Various mfg. #FN-5U, Used, \$10.95

5-BLADE as above except .11 amp,  
#TA450S, Unused, \$16.00

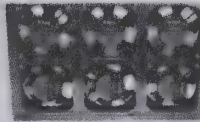


ROTRON TARZAN FAN, 6.8" square  
X 4" D plastic frame fan moves 340  
CFM of air from 115 V 50-60 Hz 85  
watt input; 5 lbs shipping. #TN3A2,  
Used-clean, \$23.00



## 6 Fan Panel

17.3"W X 10.5" panel frame  
has six high output Torin  
TA450S (or =) 4.6" square 5-  
blade metal-framed fans.  
Each fan rated 65 CFM and  
requires 115 VAC 50-60 Hz  
0.11 amps; 12 lbs. #6F-PNL, Used-excellent, \$46.00



## DC Fans

Mini BOXER 12 VDC FAN, 0.13 amp; 3.6" sq X 1".  
#3610NL, New, \$12.00



PANAFLO MINIATURE 12 VDC FAN  
2.3" sq.  
#FBP-068-12L, New, \$10.00

PAPST 18 VDC 2 w / 30 VDC 3 W FAN 9-blades; 3.5"  
sq X 1" deep. #3124F, New, \$11.00

CENTAUR 24 VDC AXIAL FAN, 11  
watts but operates well at 12 VDC.  
4.7"sqx 1.5" D metal frame with 5-  
blade plastic fan; 2 lbs sh.  
#CNDC24K4-601, Unused, \$10.95



SUNON 24 VDC FAN, 6 watts. 4.7" sq x 1.2" deep plas-  
tic frame with 5 blades. Metal guards on each side.  
#KDE2412, Unused, \$12.00

## Hupp Vehicle Fan



12 VDC HUPP FAN with oscil-  
lating grill designed for use in  
cars, trucks, buses, RV's, etc  
where "extra" air movement is  
desired. Plugs into vehicle  
cigarette lighter and mounts  
on dashboard or other flat surface. White plastic  
enclosure has black grill and pivots on mount to  
adjust angle. Includes 4 ft cord and brackets. 5 x 9 x  
3.4, 4 lbs. #HUPP-200-14, New, \$14; 3 for \$35.00

## IC Sockets

### LOW PROFILE

16 PIN, #ICS-16-LP, 12 for \$1.00  
20 PIN, #ICS-20-LP, 10 for \$1.00  
22 PIN, #ICS-22-LP, 6 for \$1.00  
24 PIN, #ICS-24-LP, 6 for \$1.00

### STANDARD

24 PIN, #ICS-24-S, 2 for \$1.00  
28 PIN, #ICS-28-S, 2 for \$1.20  
40 PIN, #ICS-40-S, \$1.00 each

### WIRE WRAP

14 PIN, #ICS-14-WW, 6 for \$2.00  
16 PIN, #ICS-16-WW, 6 for \$2.00  
18 PIN, #ICS-18-WW, 5 for \$2.00

## Selsyns & Synchros

CONTROL TRANSFORMER 90/55 V 60 Hz; 3.6"Lx2"  
dia. 2 lbs. sh. #1HCT-MKII, Used, \$23.00

RECEIVER, 115 VAC 400Hz, #23TR4, used, \$12.00



TACHOMETER GENERATOR, motor  
265 V 400 Hz 2 phase: generator 18  
V 400 Hz 0.3V/1000 RPM. No load  
speed 10000 RPM. 2 1/8"Lx1" dia 3/16"Lx1/8" dia  
shaft. #TACH-SEL-MOD, \$10.00

PHASE SHIFTER, unsymmetrical resolver; rotor 1  
phase 5 V 30 Hz. stator 2 phase 5 V 30 Hz. 1.4" dia  
x 2"L. #PS-17-E-1, used, \$12.00

AY-1 AUTOSYN as used in I-81/I-82 indicators;  
2 lbs sh. #AY-1, \$9.00

UNITED STATES NAVY SYNCHROS, Description  
and Operation, a copy of Publication #OP 1303  
printed April 1958; 100 + page primer about sel-  
syn/synchro theory and types. #BK-USNS, \$15.00

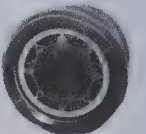
## Compass Indicators

3" DIA 0-360 deg-ree RADIO COM-  
PASS INDICATOR, adaptable for  
wind direction & antenna position  
use; 5 degree increments, 2 lbs  
shipping. #I-81, Used, \$16.00  
Connector for I-81, #CONN-I81, \$10



BENDIX IN-4D LEFT-RIGHT INDICA-  
TOR, 3" dia WW-2 vintage instru-  
ment shows wing-tip position rela-  
tive to ground; requires 24 VDC. 2  
lbs. #IN-4D, \$18.00

SPERRY MARINE INDICATOR  
MARK XX MOD.2, part of ship-  
board gyrocompass repeater. Has  
8" dia 360 degree scale in 1" incre-  
ments under glass; uses two Size-  
5 115 VAC 60 Hz selsyn transmitters.  
One drives inner directional  
indicator; second outer degree scale. With 7 ft  
cable & special connector; 10" dia X 8.5"D; 45 lbs  
sh. #IN-SPERRY, Unused, \$150.00



## 12VDC Fans



12VDC DC Fans with sleeve type bearing. New,  
1.6"x1.6"x0.48", 3CFM, #BSS12/4LC, \$3.95  
2.4"x2.4"x1.0", 11CFM, #BSS12/6LC, \$4.95  
3.1"x3.1"x1.0", 15CFM, #BSS12/8LC, \$4.95  
3.6"x3.6"x1.0", 22CFM, #BSS12/92LC, \$4.95  
4.7"x4.7"x1.0", 44CFM, #BLS12LC, \$10.95

## Blowers

Blower from T-368 transmitter. Inlet is 2.2". Outlet  
is 1.6" x 1.4". Motor is rated 1/50 Hp; IPH 0.3 amps;  
115V 60Hz; 3300 RPM. Needs 4 or 5 MFD  
Capacitor. 6 lbs sh. #BLO-T368, \$35.00

Blower from Howard  
Industries. Inlet is 1.5".  
Outlet is 1.3" x 1.2". Motor  
is rated .003 HP; 16 watt;  
115V 60Hz. 4 lbs sh.  
#127S297, \$15.95



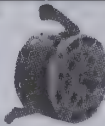
**MANY ITEMS NOT LISTED - TELL US YOUR NEEDS**



## AC Motors



A.O. Smith AC Motor 1725 RPM  
1/2 HP 115/230 VAC 60 Hz  
Single Phase Input, 8.7/4.3  
Amps. Shaft 2" Lx5/8" dia with  
keyway. O/a 11x8x8.5, 14 lbs  
sh. #44450, Unused, \$150.00



GENERAL ELECTRIC REVERSIBLE FAN  
MOTOR, ball-bearing 115 VAC 60 Hz 1 amp  
225 RPM motor. Use with fan blades  
unless cooled by other means. Has  
mount flanges and 5 mf capacitor;  
4.5" Lx5.5" dia + 1.5" L x 5/8" dia hollow  
shaft, 11 lb #5KCP39EGH210, new, \$12.00; 3 / \$20.

**BODINE AC GEARHEAD  
MOTOR 200 RPM 1/7 HP 35**  
in/lb torque, counter-clock-  
wise rotation; 115 VAC 60  
Hz input. Shaft 1.3" Lx  
5/8" dia w/ 3/16" square key.  
O/a 8.5" Lx5.6" dia; 14 lbs sh.  
#ECCI-35E200, used, \$32.95



**Ametek Shop Vac Motor.** This is the  
very high speed motor used in some  
shop vacuums. Unit as pictured, motor  
only with small cooling blades. Shaft  
approx .5 inch long, 5/16 diameter. 5.3x4.6x4.6, 5 lbs  
sh. #17749-00, Unused, \$12.95; 3 for 22.00



**115 V AC-DC MOTOR,** starts at 25 VDC, runs CW  
approx 7000 RPM 1/8 HP. 2.3x3x4.5 + 1.5" Lx0.4" dia  
spiraled shaft; 3 lbs sh. #AC-DC-H02, \$4.00



**PRINTER MOTOR ASSEMBLY,** 24 VAC 60  
Hz geared to about 4 RPM; can be wired  
for clockwise or CCW rotation. 2.8x2.5" dia  
motor on 3.8" sq metal plate; 2#. #MIZ-M0375R,  
used, \$5.00; 3 for \$12.00

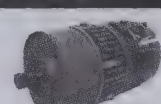


**240 RPM 115 V 60 Hz GEAR  
MOTOR** for intermittent use;  
starts @ 32 V approx 200  
RPM. Increased volts  
increases torque. Gearhead  
extends 2.8" beyond motor; 1.1" Lx1/4" dia shaft.  
Motor 2.8x2.8x2.4 + 5/8" x 3/16" dia shaft for fan on  
rear, 3 lbs sh. #MOL-2460, unused, \$6.95

## DC Motors



**6 to 24VDC Gear Motor by Globe.**  
Rated at 54 RPM at 24VDC; 23  
RPM at 12VDC; and 11 RPM at  
6VDC. Originally designed for  
24VDC. Removed from the AM-  
3349 amplifier. 1/4" diameter shaft x 3/8" long. O/a  
4.2x2x1.6, 3 lbs sh. #5A2871, Used, \$21.95



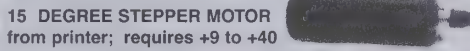
**NORTHFIELD ELECTRIC or  
HAMILTON BEACH, 28.5VDC, 2800**  
RPM motor. 3.1 amp with 1/40 HP.  
1/4" dia shaft with removable  
gear x 1/2" long. o/a 4" x 2.3", 3  
lbs, #1-1501, Used, \$12

As above but 1/33HP, 3000RPM, 2.5A, #AWC-1000, \$12

**DC MOTOR,** operates over 10-15 VDC  
100 ma 2375-2425 RPM with governor.  
Shaft 5/16" L x 1/16" dia; o/a 2.9x1.1. #AST-GK26, \$10



**MULTI-SPEED 24 VDC PM MOTOR**  
can be wired for 11500 RPM 0.012  
HP 0.7 amp or 3000 RPM 0.033 HP  
2.3 amp operation; motor starts to  
turn at 9 VDC and is reversible. 6"x2.3" dia with 3.6"  
dia collar; geared shaft 0.6x0.4" dia. 3 lbs. Sperry  
mfg. #2960031, used, \$10.95

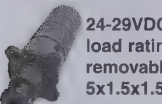


**15 DEGREE STEPPER MOTOR**  
from printer; requires +9 to +40  
VDC. High speed & performance w/ driver circuit  
info. 1x1.3" dia shaft; o/a 5.8"x1.6" dia, 2 lbs sh.  
2 ohm field, #RBM-2-62, \$15.00  
4 ohm, #RBM-4-62, \$18; 5.8 ohm, #RBM-6-62, \$20



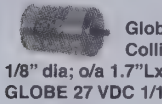
**Magnetek Variable Speed 3/4 HP DC  
Motor.** 90 VDC 10 Amps 3450 RPM. Rated  
for CCW rotation comm end. 11.3 x4.9  
dia. 22 lbs #22254200, Unused, \$170

**24VDC PM Motor,** will run from 6 to 30VDC at  
approximately 200 RPM per 6V. 5/8" dia.  
shaft is 2" L one end, 5/8" L on other. 10" L x  
3/8" Dia., 16 lbs. #DH-4000-AD7, Used, \$48.00



**24-29VDC Motor by Globe Industries.** No  
load ratings 60 RPM and 0.5 amp. Has  
removable cam on shaft. 1/4" dia. shaft.  
5x1.5x1.5, 2 lbs sh. Used, #C5A1054, \$17.95

**27VDC 2.4 Amp 3600RPM 1/30 HP Motor**  
by Delco. 6.5x2.9x3, 1/4" diameter shaft.  
6 lbs sh. #A7155, Unused, \$5.95



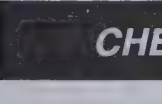
**Globe 27 VDC Mini-PM Motor,** p/o  
Collins 618T P-A; splined shaft 1/4" L x  
1/8" dia; o/a 1.7" Lx0.9" dia. #41A205, used, \$7.50  
**GLOBE 27 VDC 1/100 HP MOTORS,** 2.5" Lx1.3" DIA  
11000 RPM, p/o ARC-45, #C-25A686, used, \$10.00

**JOHN OSTER SERIES MOTOR, 27**  
VDC 1/100 HP 7000 RPM. 3" Lx2" dia  
+ 1" L x 1/4" dia shaft; 2 lbs sh.  
#C2BP1A, Unused, \$5.00



**28VDC 1.1 Amp Motor by John Oster**  
Mfg. 12000 RPM. 1 oz. in. torque.  
3/16" diameter shaft. o/a 4.8x2.3x3.3, 3  
lbs #BL-2-IS, Used, \$9.50; 3 / \$25

**15 degree 4-PHASE VR STEP SERVO, 5 ohms**  
1.5 A; 28 VDC input pulse 3/4x1/4" dia shaft;  
o/a 3x3 1/4x3, 2 lbs. sh. Made in Canada;  
removed from equipment. #20M34C1, \$12.00



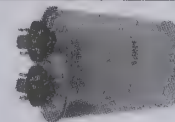
## Motor Start/Run Caps



**MOTOR START AC ELECTRIC MOTOR CAPACITOR.** New not surplus.

**110/125 volt**  
21-25mfd, #MSC125V21, \$2.98  
124-149mfd, #MSC125V124, \$3.48  
161-193mfd, #MSC125V161, \$3.69  
189-227mfd, #MSC125V189, \$3.88  
216-259mfd, #MSC125V216, \$4.15  
270-324mfd, #MSC125V270, \$4.52  
590-708mfd, #MSC125V590, \$7.73

**220/250 volt**  
21-25mfd, #MSC250V21, \$3.69  
30-36mfd, #MSC250V30, \$3.91  
53-64mfd, #MSC250V53, \$4.83



**MOTOR RUN AC METALIZED.** New not surplus.

**370VAC**  
2mfd, #MRC370V2, \$5.90  
4mfd, #MRC370V4, \$6.46  
5mfd, #MRC370V5, \$6.68  
7.5mfd, #MRC370V7R5, \$7.41  
10mfd, #MRC370V10, \$8.05  
15mfd, #MRC370V15, \$13.68  
25mfd, #MRC370V25, \$16.38  
**440VAC**  
10mfd, #MRC440V10, \$11.99  
20mfd, #MRC440V20, \$18.65  
25mfd, #MRC440V25, \$20.85

## AC Capacitors

5 mf 220 V 1.8"x4.5"; cylind. #AC-5-220, \$2.50  
7.5 mf 260 V, 2.8x2x1.3, #AC-7.5-260, \$2.50  
3.5 mf 330 V 1.3x2.1x2.1; #AC-3.5-330, \$3.00  
15 mf 330 V, 2.2x2.9x4; #AC-15-330, \$4.25  
2.5 mf 360 V 1.2x2x2.6; #AC-2.5-360, \$3.50  
3 mf 370 V 1.3x2x2.7; #AC-3-370, \$3.50  
10 mf 370 V, 2.8x3x1.8; #AC-10-370, \$4.50  
4 mf 380 V 1.3x2x4; #AC-4-380, \$4.00  
35 mf 440 V 1.8x3.4x8.9; #AC-35-440, \$7.75  
7.5 mf 480 V 1.6x2.6x4.6; #AC-7.5-480, \$4.75  
21 mf 525 V 1.9x3.5x6.7; #AC-21-525, \$8.00

## Multi-Section Capacitors

The Multi-Section Capacitors listed below are unused  
by various mfg. To see a further listing of multi-sec-  
tion caps go to [fairradio.com/multis.htm](http://fairradio.com/multis.htm)

MFD	Volts	Size	Part #	Price
300-100-80	150-150-150	2.5X1.3	#MULT-300,	\$7.75
80-100-30-10	175-400-400-150	3.8x1.5	#MULT-80,	\$8.00
75-75	300-300	2.5X1.3	#MULT-75,	\$8.25

## Brown Mica

JAN CM-size 1.8" x1.6". Used, \$1.50:

MFD	WVDC	CM	Part #
.02	600	55	BM-02
.033	600	55	BM-033
.005	1200	55	BM-005

CM	MFD	WVDC	Part #	Price
55	.0003	1200	BM55-0003,	\$3.00
60	.0003	2500	BM60-0003,	\$3.75
65	.0062	2500	BM65-0062,	\$4.00

+++++  
F1L-size MICA, 2.8x1.5x1:

MFD	WVDC	Part #	Price
0.006	2500	BM1-006	\$4.75
0.0001	3000	BM1-0001	\$4.75
0.0007	3000	BM1-0007	\$4.75

F3L 0.007mf 500VAC, #BM3-007, \$8.75

## Transmitting Mica

G-SERIES TRANSMITTING CAPACITORS, used-good  
or unused as available.

G-1-type, 2.3"H x 2.8" dia;	3 lb	\$7.50
KV	MFD	Part#
1.0	0.04	1TM-04
1.5	0.08	1TM-08
1.5	0.09	1TM-09
1.5	0.039	1TM-039
6.0	0.0047	1TM-0047
6.0	0.0001	1TM-0001
6.0	0.0002	1TM-0002
6.0	0.00024	1TM-00024

G2, 3.5"HX3" dia, \$12.00		
<u>KV</u>	<u>MFD</u>	<u>Part#</u>
20.0	0.00005	2TM-00005

G3, 4"H x 5" dia, \$18.00		
<u>KV</u>	<u>MFD</u>	<u>Part#</u>
2.5	0.15	3TM-15
10.0	0.00015	3TM-000

G4, 5.5"Hx 5" dia. 8 lbs. \$32.00		
<u>KV</u>	<u>MFD</u>	<u>Part#</u>
4.0	0.084	4TM-084

**CHECK OUT OUR LATEST FEATURE ITEMS AT FAIRRADIO.COM**



## Electrolytic Axial

All the Electrolytic Capacitors listed below are axial lead and are new.

### 16 volts

mfd	part #	price	4-9	10+
50	ELE-50-16	4/\$1.00	\$0.25	\$0.23
6800	ELE-6800-16	2/\$0.70	\$0.25	\$0.23

### 50 volts

mfd	part #	price	4-9	10+
1	NEH1.0M50AA	3/\$1.20	\$0.39	\$0.34
2.2	NEH2.2M50AA	3/\$1.20	\$0.39	\$0.34
4.7	NEH4.7M50AA	3/\$1.20	\$0.39	\$0.34
10	NEH10M50BA	3/\$1.30	\$0.42	\$0.37
22	NEH22M50BB	2/\$1.20	\$0.58	\$0.54
33	NEH33M50CB	2/\$1.30	\$0.62	\$0.58
47	NEH47M50CB	2/\$1.45	\$0.70	\$0.66
100	NEH100M50CC	\$1.00	\$0.97	\$0.90
150	NEH150M50	\$1.29	\$1.25	\$1.18
220	NEH220M50DD	\$1.29	\$1.25	\$1.18
470	NEH470M50EE	\$1.69	\$1.64	\$1.56
1000	NEH1000M50FF	\$2.62	\$2.55	\$2.41
2200	NEH2200M50FG	\$4.84	\$4.71	\$4.45
4700	NEH4700M50JB	\$8.48	\$8.25	\$7.81

### 63 volts

mfd	part #	price	4-9	10+
1500	ELE-1500-63	2/\$1.20	\$0.55	\$0.50

### 160 volts

mfd	part #	price	4-9	10+
10	C-ET10-160	\$1.12	\$1.07	\$0.99
22	C-ET22-160	\$1.52	\$1.47	\$1.38
47	C-ET47-160	\$2.05	\$1.98	\$1.84
100	C-ET100-160	\$2.24	\$2.15	\$1.99
220	C-ET220-160	\$2.62	\$2.52	\$2.35

### 200 volts

mfd	part #	price	4-9	10+
1	ELE-1-200	2/\$1.20	\$0.55	\$0.50

### 350 volts

mfd	part #	price	4-9	10+
10	MB-10-350	\$1.20	\$1.13	\$1.00
22	MB-22-350	\$1.80	\$1.70	\$1.50
33	MB-33-350	\$2.59	\$2.39	\$2.19
47	MB-47-350	\$2.60	\$2.40	\$2.20
100	C-ET100-350	\$4.18	\$4.02	\$3.74
220	MB-220-350	\$4.19	\$4.03	\$3.75

### 450 volts

mfd	part #	price	4-9	10+
10	MB-10-450	\$1.27	\$1.19	\$1.10
22	MB-22-450	\$2.70	\$2.50	\$2.30
47	MB-47-450	\$2.95	\$2.75	\$2.50
100	C-ET100-450	\$4.49	\$4.29	\$4.09

100mfd 16V PC Mt, #ELE-100-16, 4/\$1.00

## - Electrolytic Capacitor Kit -

120 Pieces. Contents:  
15 of each of the following:  
1µF/50V, 2.2µF/50V,  
4.7µF/50V, 10µF/50V,  
22µF/50V, 47µF/25V,  
100µF/25V; 5 of each of  
the following: 220µF/25V, 470µF/25V,  
1000µF/25V; #K/CAP2, New, \$16.99

## Computer Grade

MFD	Volts	Size	Part#	Price
23,000	7	5.5x1.5	CGC-7	\$1.00
90,000	10	6x3	CGC-10	\$1.50
18,000	19	5.5x1.5	CGC-19	\$2.50
72,000	25	6x3	CGC-25	\$3.00
6100	40	5.5x1.5	CGC-40	\$2.50
4900	50	3.5x1.5	CGC-50	\$2.50
3500	55	4x3	CGC-55	\$1.75
7700	200	5.5x1.5	CGC-200	\$16.00
6000	250	5.5x1.5	CGC-250	\$18.00
1500	350	4.5x2.5	CGC-350	\$23.00

Buy 5 or more one type - take 20% off  
CLAMP for computer grades:  
2" diameter, #CL-2, 3 for \$2.50  
2.5" diameter, #CL-2.5, 3 for \$2.75

## Orange Coating

All the Xicon Polypropylene (Orange Coating type) Capacitors listed below are in new condition.

MFD	Part#	Price	4-9 pcs	10&up
.001	OMB001	2/\$1.00	\$0.45	\$0.39
.0022	OMB0022	2/\$1.00	\$0.45	\$0.39
.0047	OMB0047	2/\$1.00	\$0.45	\$0.39
.0056	OMB0056	2/\$1.00	\$0.45	\$0.39
.0068	OMB0068	2/\$1.00	\$0.45	\$0.39
.0082	OMB0082	2/\$1.00	\$0.45	\$0.39
.01	OMB01	2/\$1.00	\$0.45	\$0.39
.022	OMB022	2/\$1.00	\$0.45	\$0.39
.033	OMB033	2/\$1.00	\$0.45	\$0.39
.047	OMB047	2/\$1.50	\$0.69	\$0.59
.056	OMB056	2/\$1.50	\$0.69	\$0.59
.068	OMB068	2/\$1.50	\$0.69	\$0.59
.082	OMB082	2/\$1.50	\$0.69	\$0.59
.1	OMB1	2/\$1.50	\$0.69	\$0.59
.22	OMB2	1/\$1.00	\$0.95	\$0.85
.47	OMB47	\$1.95	\$1.75	\$1.50
1.0	OMB1MFD	\$1.96	\$1.76	\$1.51

0.33mf 100V orange drop, #OR-33, 2/1  
0.68mf 100V orange drop, #OR-68, \$0.95

## 1KV Disc Capacitors

Part #	Price	10-24	25+
3.3pf 9003D3	5/\$0.99	\$0.18	\$0.16
5.0pf 9005D0	5/\$0.99	\$0.18	\$0.16
10pf 90010	5/\$0.99	\$0.18	\$0.16
20pf 90020	5/\$0.99	\$0.18	\$0.16
47pf 90047	5/\$0.99	\$0.18	\$0.16
68pf 90068	5/\$0.99	\$0.18	\$0.16
100pf DSC-100	7/\$1.00	100/\$9.00	
120pf 90112	5/\$0.99	\$0.18	\$0.16
220pf 90122	5/\$0.99	\$0.18	\$0.16
330pf 90133	5/\$0.99	\$0.18	\$0.16
470pf 90147	5/\$0.99	\$0.18	\$0.13
680pf 90168	5/\$0.99	\$0.18	\$0.13
820pf 90182	5/\$0.99	\$0.18	\$0.16
1000pf 90210	3/\$0.99	\$0.29	\$0.19
2200pf 90222	3/\$0.99	\$0.29	\$0.24
4700pf 90247	3/\$0.99	\$0.29	\$0.19
7500pf 90275	3/\$0.99	\$0.29	\$0.24
0.01µf 90310	3/\$0.99	\$0.29	\$0.19
0.050µ 90350	\$0.99	\$0.94	\$0.88
0.10µf 90410	\$1.29	\$1.22	\$1.14

## - Disc Capacitor Kit -

224 Piece 50 volt Ceramic Disc Capacitor Kit,  
Contents: 21 of each of the following: 10pF, 100pF, 1000pF, 0.01µF, 0.1µF; 14 of each of the following: 22pF, 47pF, 220pF, 470pF, 2,200pF, 4,700pF, 0.022µF, 0.047µF; 7 of each of 0.220µF; #K/CAP1, New, \$16.99

## Misc Capacitors

2500mfd 3V Can Type 3.5x1, #MC-2500, 5/\$1  
4.7mf 35V drop tant, #MC-47, 2/\$1  
0.1mf 400V case ground, #MC-0.1, \$2  
3.3mf 400V metal. poly prop. #MC-3.3, \$2

FEED- THRU SUPPRESSION CAPS,  
ERIE 1202 1000 pf 1KV. Used,  
#1202-1000, 3/\$2.75

DIPPED MICA CAPS, +/-10% 100v;  
3/\$1.25 #DIP-(specify pf),  
pf: 18 22 27 33 82 150 220 470  
2/\$1.00; pf: 750 1000 1200  
\* 1800 pf 300 v. 3 / \$3.00 \*

## Metalized Polyester

All the Metalized Polyester Tubular Capacitors listed below are new.

MFD	Part #	Price	4-9 pcs	10&up
.001	YMB001	2/\$1.50	\$0.69	\$0.59
.0022	YMB0022	2/\$1.50	\$0.69	\$0.59
.0033	PY0033	2/\$1.50	\$0.69	\$0.59
.0047	YMB0047	2/\$1.50	\$0.69	\$0.59
.0056	YMB0056	2/\$1.50	\$0.69	\$0.59
.0068	YMB0068	2/\$1.50	\$0.69	\$0.59
.01	YMB01	2/\$1.70	\$0.79	\$0.69
.022	YMB022	2/\$1.70	\$0.79	\$0.69
.033	YMB033	2/\$1.70	\$0.79	\$0.69
.047	YMB047	2/\$1.70	\$0.79	\$0.69
.056	YMB056	2/\$1.70	\$0.79	\$0.69
.068	YMB068	2/\$1.70	\$0.79	\$0.69
.1	YMB1	\$1.25	\$1.15	\$1.05
.22	YMB22	\$1.25	\$1.15	\$1.05
.47	YMB47	\$1.25	\$1.15	\$1.05
.68	PY68	\$1.95	\$1.80	\$1.60
1.0	YMB1MFD	\$1.96	\$1.81	\$1.61

## Mylar

The MLR series is a range of radial lead non-polarized polyester film (Mylar) capacitors dipped in a hard epoxy coating material to provide excellent protection against moisture. These devices are intended for general purpose DC applications.

mfd	part #	price	4-9	10+
.0022	MLR222K100	3/\$1.00	\$0.29	\$0.22
.0047	MLR472K100	3/\$1.00	\$0.29	\$0.22
.01	MLR103K100	3/\$1.00	\$0.29	\$0.22
.022	MLR223K100	3/\$1.00	\$0.29	\$0.22
.047	MLR473K100	3/\$1.19	\$0.36	\$0.29
.1	MLR104K100	2/\$1.00	\$0.46	\$0.39
.22	MLR224K100	2/\$1.39	\$0.65	\$0.59
.33	MLR334K100	\$0.99	\$0.89	\$0.76
.47	MLR474K100	\$1.05	\$0.99	\$0.92

### 630 volt

mfd	part #	price	4-9	10+
.001	MLR102K630	2/\$1.19	\$0.56	\$0.52
.01	MLR103K630	2/\$1.00	\$0.46	\$0.39
.022	MLR223K630	2/\$1.00	\$0.46	\$0.39
.047	MLR473K630	2/\$1.19	\$0.55	\$0.49
.1	MLR104K630	2/\$1.39	\$0.65	\$0.59
.47	MLR474K630	\$1.99	\$1.89	\$1.79

## RF Capacitors

Centralab 850- TYPE "door-knob" capacitors, 7.5KV, 0.5"H x 0.8" di; Used, \$7.00

#850-(specify pf),

10, 12, 25, 28, 40, 47, 50, 57, 63, 67, 75 pf

1200pf 5KV from Ceramite, epoxy make, same size as above. #CERA-1200, \$7

TYPE 857: 15KV, 40 or 50pf,  
#857-(specify pf), \$12.00

50pf 15KV from HEC type HT57, same size & style as Cent. 857, #HT57, \$12

150pf 2KV low profile doorknob, 1.4" diameter x 0.8" height, #RF534, \$7.00

25pf 5KV from HEC type MT53, axial leads, #MT53, Unused, \$6.00

## HV Capacitors

Energy Storage Capacitors Non-PCB,  
88MF 1.2KVDC,  
10"Hx 4.5"Wx3.5"D,  
#HVC-88, 11 lbs sh.  
Used, \$22.00

0.4 MFD 100,000 VDC CAPACITOR, A high voltage experimenter's dream! 41" long x 8.7" diameter 0.4 MF 100,000 VDC capacitor removed from an exotic government project! Non PCB. 1.4"L x .5" dia #18 stud ends, 97 lbs sh.  
#100MV04, \$350.00

## Vacuum Capacitors

All Vacuum Variables listed below are 10-1000pf at 5KV and have 1/2" dia. shafts. Overall size 7.5" long x 2.8" diameter. Used high pot tested. 5 lbs sh.  
Energy Lab, Ceramic, #EL5-1000-5, \$210  
Amperex, Ceramic, #CVC10/1K-5KV, \$230

Ceramic Vacuum Variable Capacitors. Each capacitor has a 3/8" dia. shaft with removable pin. Used.

300pf at 10KV, 3 5/8"D x 8 1/2"H, 7 lbs sh.  
#CVD0-300-10, \$275.00

200pf at 10KV, 3 5/8"D x 8 1/2"H, 7 lbs. #CVD0-200-10, \$275.00

500pf at 15KV, 3 1/4"D x 7 1/2"H, 1/2" dia. shaft, 7 lbs. #CVD0-500-15N613, \$360.00

1500pf at 10KV, 5.5"D x 9"H, 1/2" dia shaft, 14 lbs, #CVD0-1500-10, \$475.00  
As above but 2300pf #CVD0-2300-10, \$550

3.5-7 pf 35 KV 4.3"Lx3" dia, 5 lbs sh. UNUSED, #CVA-7-5, \$85.00

## FIXED VACUUM CAPACITORS

various mfg; used:  
3pf 25 KV cer. 3.3Lx0.8, #CY-3-25, \$14  
25pf 10 KV, 2.6Lx1.5, #JCS-2A-10, \$18  
12pf 20KV; 6.5Lx2.8, #VLC-12-20, \$17  
12pf 30KV; 6.5Lx2.2, #CLF1-12-0030, \$27

## R-C Networks

R-C Network - 0.47mfd 600VAC, 220 ohm 7 watt, 3 phase. Made by R-K Electronics. 1.5x4.7x3, #RCY6A-30, \$14.00

R-C Network - 2mfd 600VAC, 100 ohm 3 watt. Made by Electrocube. 1.3x2.9x1.3, #RG1676-7, \$12.00

R-C Network - 0.5mfd 600VAC, 220 ohm 1/2 watt. Made by Electrocube. 1.3x2.9x1.3, #RG1676-35, \$12.00

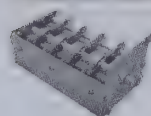
R-C Network - 0.5mfd 200VDC, 47 ohm 1/2 watt. Made by Electrocube. 0.4x1x0.6, #RG1780-3, \$2.50

CALL US AT 419-223-2196 or 227-6573

24 HOUR FAX 419-227-1313



## Air Variable



5 Gang Air Variable Capacitor covering 20 to 425pf per gang with a .02" air gap. Has a 3/8" diameter shaft x 1/4" long. Overall 6.4x3.2x2.8, 4 lbs sh. #5G-425, \$19.00

Same ratings as above except has a removeable right angle drive which

accepts a MC-124 tuning spline. Also has a longer shaft. With the right angle drive removed the shaft is 3/8" diameter with 1" length. #5G-425-GR, \$20.00



3 Gang, 4-25pf, 4-20pf, and 3-17pf. Air gap of around 0.03". 1.4"L x 1/8" diameter shaft. o/a

4x1.4x1.3, 1lbs sh. #3G-25, Unused, \$7.00

2 Gang Air Variable Capacitor, 14-78pf and 17-100pf with a

0.09" air gap. Shaft is 3/4" L x 1/4" Dia. O/A 5.3x1.5x3.3, 3 lbs sh. #C-221/T-195, Used, \$19.95



SINGLE GANG 8-26 pf 0.06" air gap; 2.8" disc removes for 0.5"L x 1/4" dia shaft. W /four 1.8"H insulators. Capacitor 1.5x2.8x3.1 o/a

#T7660443-8, used, \$7.00

## --- FM Tuner ---

H-K FM Tuner with AM capacitors, one FET/two transistor oscillator; requires -12V. Shaft 1"L x 1/4" diameter; o/a 3.5x2.3x2.8, 2 lbs sh. Mfg by Alps. #FB113U13, Unused, \$7.95



## -- TRIMMER CAPACITORS --

with screwdriver adjust shafts:

#C653/R174, 2-11pf, 3 / \$2.00  
#C2-16, 2-15.7pf, 3 / \$2.50  
#C103/382, 4-23pf, 3 / \$2.75  
#C5-25, 5-25pf, NPO 3 / \$3.00

Sub-mini Piston Trimmer Cap 1.5-4.0pf 500V. By JMC mfg. #7666, Unused, \$6.00



TRIM CAPACITORS. Screwdriver adjust. These dielectric film

trimmers are used on PCBs, e.g. in radios. Suitable for industrial equipment thanks to their good stability. Rated for 250 volts. New, \$1.99 each.

PF	Dia	Temp. Max.	Part #
5.5-65	0.39"	158F	#TRIM65P
5.5-80	0.39"	185F	#TRIM80P

## Precision Resistors

DALE (or =) POWER RESISTORS metal-type:

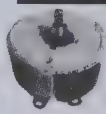
Ohms	Watts	Tol.	Part#	Price
1.96	30	1%	PR-1.96	\$2.50
12	100	5%	PR-12	\$4.00
50	20	3%	PR-50	\$1.50
100	20	1%	PR-100	\$1.50
1370	50	1%	PR-1370	\$3.25

All the resistors below are 3 / \$1.25

Ohms	Watts	Tol.	Part#	Price
1.5	3.0	5%	PR-1.5	
5	0.33	1%	PR-5	
90	0.50	1%	PR-90	
600	0.25	1%	PR-600	
58K	0.50	1%	PR-58K	
1.04M	0.33	1%	PR-1.04M	

Ohms	Watts	Tol.	Part#	Price
0.33	3	1%	PR-0.33	2/\$1.25
3000	2	1%	PR-3000	2/\$1.25
902K	2	1%	PR-902K	3/\$3.00

## Rheostats



First set of numbers after RHEO-prefix is wattage; your choice of ohms is second set. SCD= screwdriver adjust type. Style varies; USED or UNUSED:

#RHEO-25W-(ohms), \$2.50 ea

2, 6-scd, 7, 60, 200, 350-SCD, 400, 450, 500,

#RHEO-D25W-250, Dual 250 ohm, \$4.00

#RHEO-D25W-500, Dual 500 ohm, \$4.00

#RHEO-50W-(ohms), \$3.50 ea

0.5, 4, 5, 8, 15, 18, 22, 100, 200, 225, 300, 350, 375, 2500

#RHEO-D50W-16, Dual 16 ohm, \$5.00

#RHEO-D50W-35, Dual 35 ohm, \$5.00

#RHEO-150W-2, 2 ohm, \$4.75

#RHEO-150W-75, 75 ohm, \$4.75

#RHEO-225W-3, 3 ohm, \$5.25

#RHEO-300W-50, 50 ohm, 3 lbs. \$10

## Potentiometers

ALPS or = with switch; 5/8" dia + term. Shaft 1/4" dia. \$1.25 each: #POT-10K, 10Kohm; #POT-50K, 50Kohm #POT-100K, 100K ohm

10-TURN PRECISION POTS, 1/4" dia shafts. 100 ohm 2.8"Hx1.8"D dia. #A-R100-L25,\$8

ALPS 10K ohm potentiometer with a pull on / push off DPST switch. 1/4" diameter shaft. Probably good up to 1/2 watt. Used, #N-800, \$3.50; 4 / \$12

Grimes Four Section Potentiometer with knob. 1 K ohm at 2 watt per section. #A-4627, Unused, \$3.50

5 Kohm pot. with switch by PEC. 1/4" dia. shaft. #344832, Unused, \$3.50

2 Mega Ohm at 2 watts Potentiometer by Ohmite. 1/4" shaft. #CU-2052, Unused, \$2.50

250 Ohm at 4 watts Linear Resistance Wirewound Potentiometer by Clarostat. 1/4" shaft with screwdriver adjust. #RA30, Unused, \$1.75

## Resistors

1/2 Watt to 2 Watt Metal Resistors

1/2 WATT	1 WATT	2 WATT
6 for \$1.00	5 for \$1.00	5 for \$1.00
Ohms Part #	Ohms Part #	Ohms Part #
1 HW1D0	1 1W1D0	1 2W1D0
10 HW010	10 1W010	10 2W010
47 HW047	100 1W110	18 2W018
100 HW110	180 1W118	10 2W018
120 HW112	300 1W130	47 2W047
220 HW122	510 1W151	100 2W110
470 HW147	1K 1W210	1K 2W210
1K HW210	3.3K 1W233	2.2K 2W222
2.2K HW222	10K 1W310	3.9K 2W239
4.7K HW247	470K 1W447	10K 2W310
10K HW310		12K 2W312
47K HW347		100K 2W410
100K HW410		
240K HW424		
1M HW510		

## POWER WIREWOUND



5 WATT	10 WATT	25 WATT
3 for \$1.00	up to 1K ohm 3 for \$1.15	2 for \$1.59
Ohms Part #	Ohms Part #	Ohms Part #
0.1 5WD10	1.0 10W1D0	1.0 25W1D0
0.22 5WD22	2.0 10W2D0	2.0 25W2D0
0.33 5WD33	2.7 10W2D2	2.7 25W2D7
0.47 5WD47	3.3 10W3D3	3.9 25W3D9
1.0 5W1D0	3.9 10W3D9	5.1 25W5D1
2.2 5W2D2	5.1 10W5D1	5.1 25W5D1
3.3 5W3D3	6.8 10W6D8	6.8 25W6D8
4.7 5W4D7	8.2 10W8D2	8.2 25W8D2
5 5W5D0	10 10W010	10 25W010
7.5 5W7D5	15 10W015	15 25W015
10 5W010	22 10W022	20 25W020
22 5W022	27 10W027	27 25W027
39 5W039	47 10W047	47 25W047
47 5W047	100 10W110	75 25W075
100 5W110	150 10W115	100 25W110
330 5W133	1K 10W210	150 25W115
1K 5W210	10 Watt over 1K ohm 2 for \$1.09	220 25W122
4.7K 5W247	Ohms Part #	1K 25W210
6.8K 5W268	2.2K 10W222	2.2K 25W222
10K 5W310	2.5K 10W225	
	4.7K 10W247	
	10K 10W310	
	18K 10W318	

Ohms	Watts	Part#	Price
1	50	RS-1	\$1.25
1.5	3	RS-1.5	5/\$1.25
1.67	35 flat	RS-1.67	3/\$2.50
10	31 Dale	RS-10	2/\$1.25
15	95 Dale	RS-15	\$1.25
22	53 Dale	RS-22	3/\$3.00
160	20	RS-160	5/\$2.50
200	100	RS-200	\$1.20
2000	43	RS-2000	3/\$2.50
3000	68	RS-3000	\$1.25
7100	145	RS-7100	\$2.50
40M	2.5"L x .6"D	RS-40M	\$6.00
80M	6.5"L x .6"D	RS-80M	\$8.00

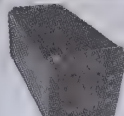
Cableform Products 30 Megohm resistor. CJC, 30Kv, Ferrule connections. 30 watts, size 10.5 x 1 1/8 #Cableform-30M \$29.00

DALE 70 WATT 5% 6- RESISTOR BANK, two ea 4 & 7 ohm. one ea 6 & 8 ohm; 6"L x 3" H. #R6X70W, \$5.25

## -- SLIDE RESISTORS --

Ohms	Watts	Part#	Price
4	25 W + 4 fixed	SR-4	3/\$2.75
15	50	SR-15	\$1.75
16	225	SR-16	\$8.50
20	25	SR-20	\$1.25
50	160	SR-50	\$3.00
100	150	SR-100	\$3.00

## Cases & Enclosures



Ideal enclosures for your next project! All items below are black aluminum chassis with dark grey front panels. The top and bottom of each of the units are heatsinked with 1/10" fins. The overall dimension of each unit is 9 5/8" deep x 5" tall. All enclosures have multiple 1/4" diameter holes on the front plate. They differ according to width. Used excellent.

1 15/16" Wide, 3 lbs sh, #ENC-4-2, \$9.00  
4 1/8" Wide, 4 lbs sh, #ENC-10-4, \$11.50

Cast aluminum boxes for those RF and other projects where an inexpensive sturdy box is needed. Boxes have various late 1970's transistors and components and circuit boards. Used condition.

Cast aluminum box. 7.5 x 2.625 x 7.5 has sheet aluminum side panels and male DB9 connector. 2 lbs sh. #BOX68429, \$6.00

Similar to above but has 5 internal compartments separated by cast walls. Four sections each 13/16 x 4 1/8 x 1 1/16 and one section 2 13/16 x 2 3/16 x 1 5/16. 2 lbs sh. #BOX295C, \$7.00

Medium cast box 6 1/2 x 4 1/4 x 1 1/2 with provision for mounting circuit board at approx 3/4 inch depth. Two sheet aluminum covers. 3 lbs sh. #BOX641, \$10.00

INSTRUMENT CABINET for HP- test set; adapt to other uses. 7.6"H x 19"Wx9"D + 4"D cover less 1" overlap; three strap; 17 lbs sh. #CS-HP3550, used, \$32.00

LARGE ALUMINUM TRANSIT CASE with rounded corners, hasp fasteners & carrying handles; 20.8"Hx28"W x17"D including 6"H top. Spot welded compartments + 2 nesting trays; 66 lbs. #CY-3700/PRC-47, used, \$56.00

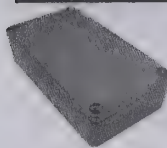
Steel Ammo Box, ideal for your tools. Inner Dimensions are 3.4 x 10 x 6.5. Hasp fastener on one side and hinged on the other. Slight rust. Carrying handle. 6 lbs sh. #ENC-AMMO, Used, \$6.00; 6 for \$22.00

Low profile cast aluminum enclosure. Removeable top. Has some small holes. 5.8x2.5x1.6, 2 lbs sh. #LP-1 used, \$6.95

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## Enclosures

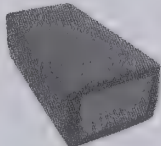


**ALUMINUM SEALED DIE-CAST ENCLOSURE.** These enclosures provide effective EMI- and RF-shielding. The

mounting holes and the screws for the lid are outside the sealed area, which prevents moisture and dust from entering the enclosure. New.

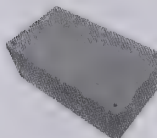
2.5" x 2.3" x 1.4", #G104, \$8.58  
4.5" x 2.6" x 1.2", #G106, \$10.60  
6.7" x 4.8" x 2.2", #G1201, \$25.70  
8.7" x 5.7" x 2.2", #G124, \$29.99

Molded Plastic in high-impact ABS, fire-retardant - dark gray. These cases in molded plastic have a two-piece design with a



tongue and groove joint between the top and bottom half. Non-scratch surface with a high-quality finish. Guide slots are provided for vertical PCB mounting and slots make horizontal PCB mounting possible. New.

3.5" x 2.0" x 0.9", #G403, \$3.80  
3.5" x 2.0" x 1.3", #G404, \$2.99  
4.7" x 2.4" x 1.2", #G407, \$5.90  
4.7" x 2.4" x 1.6", #G410, \$6.50  
5.9" x 3.1" x 1.8", #G416, \$9.99  
7.5" x 3.9" x 2.4", #G421, \$12.80

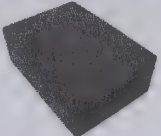


This plastic utility box is molded in impact-resistant ABS and has card guides spaced at intervals of 7.9" to

allow flexibility in the spacing of the components or the creation of compartments. Guides will accept cards with a max. thickness of 0.06". New.

3.7" x 1.9" x 1.5", #G1068, \$2.99  
5.3" x 3.0" x 2.0", #G1098, \$2.99

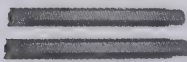
These enclosures consist of high-impact ABS (operating temperature: -40°F to +212°F). The lid and the base



equipped with a tongue and groove sealing system with a neoprene gasket. The mounting holes and the attaching screws are outside the seals, which prevents moisture and dust from entering the enclosure. Internal guide slots allow the vertical mounting of PCB assemblies. The guides on the internal base allow the horizontal mounting of PCBs. New.

2.5" x 2.3" x 1.4", #G302, \$4.78  
4.5" x 2.6" x 1.6", #G304, \$7.98  
6.7" x 4.8" x 2.2", #G313, \$12.90  
10.4" x 7.3" x 4.0", #G378, \$29.98

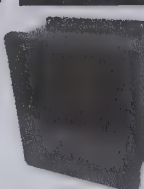
## Equipment Glides



Military quality for rack mounting; 2"W x 16.5"L; chassis

slides have 19" travel. Load rating approximately 100 lbs; 6 lbs sh. #GL-1621, used, \$15.00 per pair

## Window Enclosure



Weather Resistant Enclosure with Window, Great for your outdoor control / monitoring of solar cells, antenna controls, control center for your garden watering system. Cover is hinged & gasketed for weather resistance. O.D.

15.5" x 13.4" x 6.5"; I.D. 13.9 x 11.9 x 5.9; Window 9.4 x 6. The window allows you to monitor your circuit if you put readouts behind the window. Made of fiberglass reinforced polyester, Non-metallic. Color - machine gray. Long piano hinge, looks like stainless steel. Stahl Industrial. 10 lbs sh. #23541412, Unused in box, \$49.50

## Crystals

JK02 Ovens for CR-26 xtal. 6 - 24 VAC / DC; plug into octal socket. Less xtals; Used, #251B1001 for one xtal, \$2.75 #251B1003 for two xtal, \$3.25



Baker's Dozen

Crystal Socket Assembly, 13 ceramic crystal sockets CR-23 style mounted on an aluminum strip. 9"L x 1.2"W x 0.9"H, 2 lbs sh. #CR-23-13, \$7.50

## Insulators

Stand-off insulators crows feet type. Brass plated bases and terminals: D= Diameter H=Height M=Mount base holes' center distance ST=Screw terminals CT=Clamp terminals



#B-H3-D1.25-ST3, brown ceramic; M=2.25". Term. cap: 7/8x1 5/8" dia; 2 lbs. \$3.25

#W-H5-D1.25-ST, white; M=2.625". Term cap; 3/8x 1 1/4" dia. 3 lb \$4.25

#B-H5-D1.25-CT, white; M= 2.25". Term cap: 1x1 5/8" dia. 3 lb \$4.50

#B-H7-D1.25-ST, brown, M=2.6", Term cap 1x1 3/4" dia; 3 lbs. \$5.50

Quantity Discounts on above!  
10-25 ea (1-type) 20% off;  
25% (26-99), 30% (100)



STAND-OFF with CLIP for clip-in resistors or capacitors. 1"H x 0.8" square insulator with clip for 0.5" dia cap, #NS4W1208, \$2.00

PORCELAIN STAND-OFFS, no bases but screw threaded:

#P-4H-75D 4"H x 0.75" dia; 8-24 threader. \$1.25 ea; 2 / \$2.25

## --- Strain Insulators ---

BROWN porcelain insulator 8.5"Lx1.8"H x 1"D with reinforced 0.5" dia hole on ends; 3lbs sh. #SPI-85181, \$2.39; 2/\$3.50

## Insulators



Insulator, 1 1/2"H x 1" Diameter. Has a 1/4" - 20 thread on each end. #NL522W04, \$ 1.50

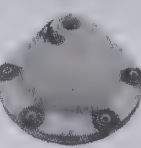
INSULATOR POST for mounting capacitors, coils, etc. 1.7"Hx3/8" sq porcelain; 1/8" di thru-hole near top; base threaded for chassis screw. #IP-1706, \$1.25

2"Hx1" square; two 6/32 threads top and bottom. #NL523W14, \$2.50

MP-48A INSULATOR for WW-2 vehicular spring antenna base; 3.6"Lx2.6" dia, 4 lb. #INS-48A, \$18.00

COLLAR for MP-48A, fits bottom of base, #COLL-48A, \$3.00

Phenolic Insulator from MP-48, #IN-118, \$8.50



Large porcelain thru panel insulator. 9/16" diameter center hole. Has 6 threaded mounting holes on outer lip. Overall size is 5 1/4"Dia x 2 3/4"H.

No Hardware. #INS-6, Used, \$12.00

## Coil Forms

Small Ceramic Coil Form consists of 35 grooves in a 1.7" space. o/a 3.1"Hx1.1"dia. #CF-5, \$3.00

Small Ceramic Coil Form consists of 10 grooves in a 0.5" space. o/a 1.7"Hx1"dia #CF-1, \$2.50

3 pin Plastic Coil Form which fits BC-611. o/a 0.9" dia. x 1.9"H, #CF-3, 2/\$1.25



Coil Form Assortment has: porcelain inductor core 1 7/8" tall 1 1/8" base has 4 mounting

holes. The winding core has 41 grooves for wire 10 holes on flat edge. 3 small porcelain cores with 3 wire grooves. The base has a 6/32 threaded hole. #IND-K1, \$3.25

## Inductors & Coils

#C-447 coil for BC-610 xmitter 4.5"L x 4.5" dia; 3 lbs sh. Unused, \$14.00



1.25Mhz RF choke with ceramic post mount, Overall 2.7" L. #L-RF1.25, \$3.50

400UH RF choke axial lead, #L-RF400, \$1.55; 5 for \$5.50

TELEPHONE PICK UP COIL p/o modem coupler; no info. 5/8x1.8" dia. #403-4, \$1.25

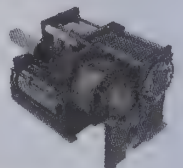
## Inductors & Coils



ROLLER INDUCTOR ASSEMBLY with 115 VAC 400 Hz motor drive, 3.4" lg x 1.75 dia coil; 28 turns #18 wire

approx 14 uH with center tap. Designed to resonate antenna to a transceiver's frequency. 4.5x2.8x3.8, 5 lb used #T301/CU-991, \$8.50

ANTENNA LOAD ASSEMBLY from AM-3349/GRC-106, includes C26 1000pf at 5KV vacuum variable capacitor, C27 15-355pf air capacitor, 26 1000pf feed-thru caps, L1 0.5 to 40UH variable inductor, L2 37UH fixed inductor, S1 2-deck 5-position ceramic switch and two Globe or = 24 VDC motors. 5.5 x 9.5 x 5.5, 10 lbs shipping. #3349-02, Used, \$280.00



L5 ROLLER INDUCTOR, 26 turns #18 silvered wire 2"Lx1.1" dia coil: 8.4 uH max. 115 V

400 Hz motor drive like above; runs on 26V 60 hz. Adaptable to direct drive. O/a 6x3x4.75, 3 lb #L5/ARC-58, \$15.00

ROLLER INDUCTOR

KITS includes 4.4"L x 1.5" dia ceramic coil with 40 turns #14 silvered-wire, roller wheel, guide shaft & springs. 3/8" dia shafts have removable pinned gear. End support plates not supplied; 3lbs sh. #L22-PRC-47, 22 uH, \$18.00 #L35-PRC47,35 uH w/ part slug core \$17 #L40-PRC47,40 uH w/ full slug core \$17



40 UH coil on a ceramic form with 9 taps. #16 wire. 39 turns. 4.7"L x 2" diameter. #L-4016, \$12.00

RF MASTER OSC COILS: pull out of T-22 / ARC-5 7-9 MHz xmitter; #T53/6032, \$4.75

Ceramic 2" Hx1.6" diameter base. #L101/ART13, \$4.75

+++++

FERRITE CORE INDUCTOR PC mount; 7/8x 3/4" dia. #NV243, 123-177 mH, \$2.00

Small Inductor, 1.5 mH, 1 ADC, 5V, 12KHz, .5 ohm DCR, PC mount. #80063, \$2.30; 3 / \$6.00

## Inductors



The PI Wound Inductors listed below are enamel coated.

The 2nd number in the part number designates the number of sections.

Part #	L x Dia	uH	L-ma	Price	10 pcs
P3FE-1200	.90-.32	1200	50	\$5.00	\$30
P3PE-500	.50-.30	500	50	\$5.00	\$30
P2PE-675	.75-.45	675	200	\$5.00	\$30
P4PE-3500	1.00-.42	3500	200	\$5.00	\$30
P3FS-5800	.90-.50	5800	200	\$3.00	\$15
P3FE-12000	1.00-.42	12000	200	\$5.00	\$30

EMAIL US YOUR INQUIRIES AT FAIRRADIO@FAIRRADIO.COM



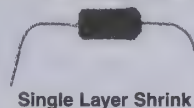
# Inductors

First letter in part number is the Style: M - Multilayer; S - Single layer; P - Pl wound / number of sections;

Second letter in part number is the Material: P - Phenolic; F - Ferrite;

Third letter in part number is the Coating: C - Coated; S - Shrink covering; E - Enamel wire;

Example: A part number that starts out "MPE" would represent a Multilayer style, a Phenolic form, and a Enamel coating.



Multi Layer Enamel

Multi Layer Coated

Single Layer Enamel

Single Layer Shrink

Wideband

Torroid

## MULTI LAYER ENAMEL

Part #	L x Dia	uHy	I - ma	Price	5 pcs	10 pcs	100 pcs
MPE-55	.40x.25	55	125	\$2.00	\$6.00	\$10.00	\$60.00
MPE-65	.30x.20	65	125	\$2.00	\$6.00	\$10.00	\$60.00
MPE-70	.30x.20	70	125	\$2.00	\$6.00	\$10.00	\$60.00
MPE-75	.30x.12	75	125	\$2.00	\$6.00	\$10.00	\$60.00
MPE-85	.30x.20	85	125	\$2.00	\$6.00	\$10.00	\$60.00
MPE-100	1.40x.40	100	2000	\$2.00	\$8.00	\$14.00	
MPE-107	.30x.20	107	50	\$2.00	\$6.00	\$10.00	\$60.00
MPE-110	.30x.15	110	50	\$2.00	\$6.00	\$10.00	\$60.00
MPE-122	.38x.25	122	125	\$2.00	\$6.00	\$10.00	
MPE-135	.40x.55	135	300	\$2.00	\$8.00	\$14.00	\$80.00
MPE-135	.30x.18	135	50	\$2.00	\$6.00	\$10.00	\$60.00
MPE-138	.30x.20	138	125	\$2.00	\$6.00	\$10.00	
MPE-150	.30x.18	150	50	\$2.00	\$6.00	\$10.00	\$60.00
MPE-178	.30x.22	178	125	\$2.00	\$6.00	\$10.00	\$60.00
MPE-200	.30x.20	200	125	\$2.00	\$6.00	\$10.00	\$60.00
MPE-218	.30x.22	218	125	\$2.00	\$6.00	\$10.00	\$60.00
MPE-100-30-260	1.00x.30	260	500	\$2.00	\$8.00	\$14.00	
MPE-30-25-260	.30x.25	260	50	\$2.00	\$6.00	\$10.00	\$60.00
MPE-266	.30x.30	266	50	\$2.00	\$6.00	\$10.00	\$60.00
MPE-300	.30x.25	300	50	\$2.00	\$6.00	\$10.00	\$60.00
MPE-340	.30x.30	340	100	\$2.00	\$6.00	\$10.00	\$60.00
MPE-360	.30x.20	360	100	\$2.00	\$6.00	\$10.00	\$60.00
MPE-362	.30x.27	362	100	\$2.00	\$6.00		
MPE-375	.30x.25	375	100	\$2.00	\$6.00	\$10.00	\$60.00
MPE-390	.30x.30	390	100	\$2.00	\$6.00	\$10.00	\$60.00
MPE-400	.75-.35	400	500	\$3.00	\$10.00	\$15.00	
MPE-435	.30x.25	435	50	\$2.00	\$6.00	\$10.00	\$60.00
MPE-550	.30x.30	550	50	\$2.00	\$6.00	\$10.00	\$60.00
MPE-680	.30x.30	680	50	\$2.00	\$6.00	\$10.00	
MPE-685	.30x.40	685	50	\$2.00	\$6.00	\$10.00	\$60.00
MPE-100-40-715	1.00x.40	715	500	\$2.00	\$8.00	\$14.00	
MPE-30-12-715	.30x.12	715	30	\$2.00	\$6.00	\$10.00	\$60.00
MPE-785	.30x.32	785	50	\$2.00	\$6.00	\$10.00	\$60.00
MPE-820	.30x.40	820	50	\$2.00	\$6.00	\$10.00	\$60.00
MPE-1000	.30x.40	1000	50	\$2.00	\$6.00	\$10.00	\$60.00
MPE-1160	.40x.30	1160	50	\$2.00	\$6.00	\$10.00	\$60.00
MPE-3000	.30x.20	3000	30	\$2.00	\$6.00	\$10.00	\$60.00
MPE-4300	.40x.20	4300	50	\$2.00	\$6.00	\$10.00	\$60.00
MPE-6000	.85x.40	6000	200	\$2.00	\$6.00	\$10.00	
MPE-6250	.30x.42	6250	75	\$2.00	\$6.00	\$10.00	\$60.00
MPE-7950	.40x.30	7950	30	\$2.00	\$6.00	\$10.00	\$60.00
MPE-11500	.50x.40	11500	30	\$2.00	\$6.00	\$10.00	\$60.00

## MULTI LAYER COATING

Part #	L x Dia	uHy	I - ma	Price	5 pcs	10 pcs	100 pcs
MPC-90	.30-.28	90	30	\$2.00	\$5.00	\$7.50	\$50.00
MFC-95	.25-.12	95	30	\$2.00	\$5.00	\$7.50	
MPC110	.30-.25	110	50	\$2.00	\$5.00	\$7.50	\$50.00
MFC-135	.30-.19	135	30	\$2.00	\$5.00	\$7.50	\$50.00
MFC-145	.30-.22	145	30	\$2.00	\$5.00	\$7.50	\$50.00
MFC-155	.30-.19	155	50	\$2.00	\$5.00	\$7.50	\$50.00
MPC-25-30-180	.25-.30	180	50	\$2.00	\$5.00	\$7.50	\$50.00
MPC-30-30-180	.30-.30	180	50	\$2.00	\$5.00	\$7.50	\$50.00
MFC-195	.30-.18	195	30	\$2.00	\$5.00	\$7.50	\$50.00
MFC-200	.30-.25	200	75	\$2.00	\$5.00	\$7.50	\$50.00
MFC-205	.30-.20	205	50	\$2.00	\$5.00	\$7.50	\$50.00
MFC-225	.30-.30	225	50	\$2.00	\$5.00	\$7.50	\$50.00
MFC-260	.30-.25	260	50	\$2.00	\$5.00	\$7.50	\$50.00
MFC-265	.30-.30	265	50	\$2.00	\$5.00	\$7.50	\$50.00
MPC-266	.30-.30	266	50	\$2.00	\$5.00	\$7.50	\$50.00
MPC-30-30-300	.30-.30	300	50	\$2.00	\$5.00	\$7.50	\$50.00
MPC-30-22-300	.30-.22	300	50	\$2.00	\$5.00	\$7.50	\$50.00
MFC-325	.30-.30	325	50	\$2.00	\$5.00	\$7.50	\$50.00
MFC-355	.30-.22	355	50	\$2.00	\$5.00	\$7.50	\$50.00
MFC-425	.50-.40	425	50	\$2.00	\$5.00	\$7.50	\$50.00
MPC-510	.30-.30	510	50	\$2.00	\$5.00	\$7.50	\$50.00
MFC-590	.30-.28	590	50	\$2.00	\$5.00	\$7.50	\$50.00
MFC-625	.30-.35	625	50	\$2.00	\$5.00	\$7.50	\$50.00
MFC-835	.30-.40	835	50	\$2.00	\$5.00	\$7.50	\$50.00
MPC-1200	.35-.32	1200	50	\$2.00	\$5.00	\$7.50	\$50.00
MPC-38-32-1400	.38-.32	1400	50	\$2.00	\$5.00	\$7.50	\$50.00
MPC-32-32-1400	.32-.32	1400	50	\$2.00	\$5.00	\$7.50	\$50.00
MPC-1530	.35-.32	1530	50	\$2.00	\$5.00	\$7.50	\$50.00
MPC-1650	.40-.35	1650	50	\$2.00	\$5.00	\$7.50	\$50.00
MPC-1660	.35-.30	1660	50	\$2.00	\$5.00	\$7.50	\$50.00
MFC-7900	.40-.28	7900	50	\$2.00	\$5.00	\$7.50	\$50.00
MFC-8450	.40-.48	8450	50	\$2.00	\$5.00	\$7.50	\$50.00
MFC-10300	.50-.40	10300	50	\$2.00	\$5.00	\$7.50	\$50.00
MFC-16900	.50-.40	16900	50	\$2.00	\$5.00	\$7.50	\$50.00
MFC-21000	.65-.41	21000	50	\$2.00	\$5.00	\$7.50	\$50.00
MFC-23000	.50-.50	23000	50	\$2.00	\$5.00	\$7.50	\$50.00
MFC-26000	.65-.45	26000	50	\$2.00	\$5.00	\$7.50	\$50.00

## MULTI LAYER SHRINK

Part #	L x Dia	uHy	I - ma	Price	5 pcs	10 pcs	100 pcs
MFS-59	.70-.40	59	300	\$3.00	\$10.00	\$15.00	
MFS-100	1.00-.40	100	800	\$3.00	\$10.00	\$15.00	
MFS-110	1.25-.45	110	1200	\$3.00	\$10.00	\$15.00	
MFS-115	1.50-.60	115	2000	\$3.00	\$10.00	\$15.00	
MFS-170	.75-.40	170	800	\$3.00	\$10.00	\$15.00	
MFS-182	.75-.50	180	125	\$3.00	\$10.00	\$15.00	\$100.00
MFS-520	.75-.40	520	300	\$3.00	\$10.00	\$15.00	\$100.00
MFS-750	.50-.22	750	200	\$3.00	\$10.00	\$15.00	\$100.00
MFS-1110	.75-.40	1110	300	\$3.00	\$10.00	\$15.00	\$100.00
MFS-1125	1.20-.30	1125	200	\$3.00	\$10.00	\$15.00	\$100.00
MFS-4300	.78-.70	4300	200	\$3.00	\$10.00	\$15.00	
MFS-13000	.75-.50	13000	125	\$3.00	\$10.00	\$15.00	\$100.00
MFS-17500	.75-.50	17500	125	\$3.00	\$10.00	\$15.00	
MFS-39200	.75-.45	39200	125	\$3.00	\$10.00	\$15.00	

## SINGLE LAYER ENAMEL

Part #	L x Dia	uHy	I - ma	Price	5 pcs	10 pcs	100 pcs
SFE-4	.65x.22	4	2000	\$2.00	\$8.00	\$14.00	
SPE-4.5	.62x.20	4.5	800	\$2.00	\$5.00	\$7.50	\$50.00
SFE-33-10-5.5	.33x.10	5.5	200	\$2.00	\$5.00	\$7.50	\$50.00
SFE-20-23-5.5	.23x.10	5.5	200	\$2.00	\$5.00	\$7.50	
SPE-30-14-5.5	.30x.14	5.5	200	\$2.00	\$5.00	\$7.50	\$50.00
SPE-50-17-5.5	.50x.17	5.5	300	\$2.00	\$5.00	\$7.50	
SPE-62-20-5.5	.62x.20	5.5	300	\$2.00	\$5.00	\$7.50	\$50.00
SPE-30-10-6	.30x.10	6	200	\$2.00	\$5.00	\$7.50	
SFE-75-22-6	.75x.22	6	800	\$2.00	\$5.00	\$7.50	\$50.00
SFE-78-30-6	.78x.30	6	500	\$2.00	\$5.00	\$7.50	
SPE-25-10-6.5	.25x.10	6.5	200	\$2.00	\$5.00	\$7.50	\$50.00
SPE-30-15-6.5	.30x.15	6.5	200	\$2.00	\$5.00	\$7.50	\$50.00
SPE-62-18-6.5	.62x.18	6.5	300	\$2.00	\$5.00	\$7.50	\$50.00
SPE-25-12-7.5	.25x.12	7.5	200	\$2.00	\$5.00	\$7.50	\$50.00
SPE-75-20-7.5	.75x.20	7.5	300	\$2.00	\$5.00	\$7.50	\$50.00
SPE-10	.35x.11	10	200	\$2.00	\$5.00	\$7.50	\$50.00
SPE-42-10-11	.42x.10	11	200	\$2.00	\$5.00	\$7.50	
SPE-50-13-11	.50x.13	11	200	\$2.00	\$5.00	\$7.50	\$50.00
SPE-11.5	.35x.15	11.5	200	\$2.00	\$5.00	\$7.50	
SPE-41-12-12.5	.41x.12	12.5	200	\$2.00	\$5.00	\$7.50	\$50.00
SPE-30-10-12.5	.30x.10	12.5	30	\$2.00	\$5.00	\$7.50	\$50.00
SPE-18	.57x.20	18	200	\$2.00	\$5.00	\$7.50	\$50.00
SPE-50-17-23	.50x.17	23	80	\$2.00	\$5.00	\$7.50	\$50.00
SPE-75-19-23	.75x.19	23	200	\$2.00	\$5.00	\$7.50	\$50.00
SFE-25	.75x.21	25	200	\$2.00	\$5.00	\$7.50	\$50.00
SPE-27	.30x.10	27	30	\$2.00	\$5.00	\$7.50	\$50.00
SFE-34	1.00x.29	34	800	\$2.00	\$5.00	\$7.50	
SFE-36	.88x.22	36	300	\$2.00	\$5.00	\$7.50	
SPE-39	.75x.21	39	300	\$2.00	\$5.00	\$7.50	\$50.00
SPE-44	.75x.21	44	300	\$2.00	\$5.00	\$7.50	\$50.00
SPE-45	.50x.13	45	80	\$2.00	\$5.00	\$7.50	
SPE-58	.50x.13	58	80	\$2.00	\$5.00	\$7.50	\$50.00
SPE-75	.50x.15	75	30	\$2.00	\$5.00	\$7.50	\$50.00
SPE-77	.50x.15	77	30	\$2.00	\$5.00	\$7.50	
SFE-78	.75-.40	78	800	\$3.00	\$10.00	\$15.00	
SPE-80	.75x.20	80	150	\$2.00	\$5.00	\$7.50	\$50.00
SFE-95	.85x.25	95	200	\$2.00	\$5.00	\$7.50	
SFE-97	.50x.18	97	50	\$2.00	\$5.00	\$7.50	\$50.00
SFE-116	.73x.38	116	800	\$2.00	\$6.00	\$10.00	
SPE-148	.40x.15	148	30	\$2.00	\$5.00	\$7.50	\$50.00
SFE-170	.50x.13	170	125	\$2.00	\$6.00	\$10.00	
SPE-185	1.25x.35	185	200	\$2.00	\$5.00	\$7.50	\$50.00
SFE-188	.42x.11	188	30	\$2.00	\$5.00	\$7.50	
SPE-188	.50x.13	188	30	\$2.00	\$5.00	\$7.50	

## SINGLE LAYER COATING

Part #	L x Dia	uHy	I - ma	Price	5 pcs	10 pcs	100 pcs
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## Standard Relays

**OPEN FRAME RELAYS** with heavy 10 amp silver contacts; mi-calex insulated. 1.8x2.4x1.8, 1 lb sh. **USED-CLEAN:**

DPST NO, coil 115 VAC 60 Hz 400 ohms, #22-4383, \$16.00

DPDT, coil 6.3vac1 ohm, #22-4384, \$18

DPDT ceramic, 28VDC coil. #1007-BF, \$10.00

SPDT 9.6-15.8 VDC relay 206 ohm coil; used in GE mobile transceivers. For solder or socket connections. 1x1x3/4. #35BW1001A2, Unused, \$1.75 each. 24/\$29.95

DPDT P&B PLATE RELAY; sealed metal can, requires octal socket. 2.5x1.5x1.4, #KR-4175-1, Unused, \$2.50

OMRON 3PDT RELAY, 24 V DC 650 ohm coil; 2 A contacts. 11-pin plug-in/solder lugs. 1x1.5x0.8; #OM-MY3, \$3

P&B 3PST 120 VAC coil, 10 amp 1/4 HP contacts; clear cover. #KU-4666, \$3.95

DUAL DC COIL each 3PST; one 24 V, other 48 V. PC-mt. 2.8x1.5x1.3; #116-2601, \$3.00

115 VAC 60 Hz COIL 25 amp @ 28 VDC/ 115 VAC contacts; solder terminals. 1.8x 3x1.8; #26S20/2054, Used, \$4.75

K3 Relay removed from the T-368. 380 ohms 115VAC 60Hz. High voltage: SP-NC 2500VDC at 500ma. Low voltage: SPDT 500VDC at 10ma. #K3-T368, \$29.95

Open frame relay 24VDC 230 ohm coil. 3PST N.O. 10 amps 120VAC / 5 amps 240VAC. SPST N.O. 1 amp 24VDC #DOUX-2055, \$4.75

4PDT 48VDC 3700 ohm coil; 1x1.5x1.7, #MHX4069, \$2.00

DOLLAR DAZE RELAY KIT, five mixed relays various voltages AC/DC. #DD-56-98, \$2.50

SENSITIVE RELAY SPDT 6 to 12 VDC 1500 ohms, contact adjust. 2.8x2.2 x2.3, 1 lb sh. #RM39/1901, used \$1.95

Sealed SENSITIVE RELAY, 50 ohms 28 ma coil; DPDT contacts. Solder hooks; 1x1x2 1/4. #R400-2B-50, \$3.50

ULTRA-SENSITIVE P&B 6 VDC DPDT RELAY, coil 500 ohm res. < 40 mv nom. power. Contacts rated 2 amp @ 28 VDC/120VAC; solder or socket mount. #R10-E1Y2SS500, Unused, \$4.25

## Vacuum Relays

Kilovac (equal to Jennings RB1H) SPDT 26 VDC 270 ohm coil; 12 KV pk AC/DC 15 amps cont. W/ mount flange; 2.3"Hx1.5"Dia, 1 lb. #H-8, Used, \$79.95

SPDT 335 ohm; 3.6 KV pk 18 A AC/DC. Max-open/release: 6 ms. 1.3"Hx0.8"Dia, used less hardware, #RJ1A-26S, \$58.00

SPDT 8 amps at 2KV Jennings vacuum relay. 26 vdc, 920 Ohm coil. Mounts in 1/2" hole. 1.6" long. One terminal trimmed but usable. #RF1E-26N591, \$40

## Vacuum Contactors

JENNINGS SPST VACUUM CONTACTOR for 3-1/8" (78 mm) dia hardline coaxial hook-up; rated 25 KW @ 30 MHz; 20 KV peak test; actuator 19-29 VDC. 4x8x3.8, 7 lbs. #RC10A5225A24, Unused, \$120

JENNINGS SPDT RF CONTACTOR for high power transmit and process equipment. 26.5 VDC actuator switch rated 300 amps @ 2.5 KV peak; pk test 10 KV 60 Hz. Sealed enclosure w/ mount flange; connector not available. 5x 5.3 x9.5, 22 lbs sh. #RF20BLDE8121-I, \$175.00

## Relays, etc...

LEDEX 28 VDC SOLENOID, 8-position 45 deg stroke. Start torque: 5 lb-in 35 W (15 lb-in holding) cont. duty; 32 lb-in 700 W 1/20 duty. 7S-size 2.8" dia x1.9" W; 1/2x3/8" dia shaft. 4 lbs. #S-8210-025, Unused, \$5.75

ITT General Controls Sub-miniature Direct Acting Solenoid Valve. Coil 24 VDC, 10 PSI, 1/8 in port. For use with air, gas, water, hydraulic fluids, light fuel oils. Looks like 5/16 fitting. 2" long x 1" diameter. 1 lb sh. #S32121012, Unused, \$12.00

## RELAY SOCKETS

10-BLADE Relay Socket for track mount of above; pressure screw terminals; 2.8x1.4x2., Weidmuller mfg. 1 lb. #RS-10, Unused, \$3.00

## REED RELAYS

4-REED RELAY CIRCUIT BOARD, 3 / 500 ohm & one 5K ohm 10-15 VDC relays; also a 26 VDC DPDT sealed relay. #792-312, \$3.50

ELECTROL 5 VDC REED RELAY, low current SPST norm-open contacts; 0.7"x2.5"x0.6". #R4376-2, NEW, \$2.75

## SOLID STATE RELAYS

Solid State Relay by Gordos. 3-32VDC input, 240VAC at 10 amps. 2.2x1.8 x1, #G280D10V, Used, \$10.00

## Contactor

CONTACTOR RELAY, 12 VDC coil & 12 V SPST norm-open contacts; 20 amps. Mfg by Massy Ferguseon. 2x1.8x1.1; 1lb sh. #81-2450-1, \$3.50; 10/\$23

SIEMENS CONTACTORS, 80 VDC coils, 2 lbs. NEW: 2 NO+2NC; contacts 230/600 V 3/1 amps. Aux contact 10A 240 VAC; 2.8x1.8x1.8. #3TH12022 \$7.50

## Coaxial Devices

SPDT Microwave Switch designed for high performance in microwave systems to 12.4 GHz. Has three TNC connections. Requires 24-30VDC. 3x2.70.9, Jay-EI Products. #D2-313B008, used, \$46.00

Transco SPDT Coax Relay, 50 ohms, Frequency: DC - 18GHz, Power: 28 Volt DC, Three SMA females. #82152-810C30100, Good condition, \$38.00

RE-275 APDT Coax Relay, operates over 100-400 MHz, 24-28VDC coil. VSWR better than 1.1; cross-talk better than 60dB. Three BNC connections. 2.5x 3.2x1.7, 2 lbs sh. #RE-275, Used, \$29.95

6VDC SPDT Coax Relay by Danbury-Knudsen. For use with transmitter. Has two female BNC connections and one solder connection. #CR119, Unused, \$28.95

4000 ohm SPDT Coax Relay by Danbury-Knudsen. Has 3 female BNC connections. #CR37, Unused, \$29.95

Coaxial Transfer Relay, 4 BNC connectors which switch from AD BC to AB CD. Allows a preamp or some other device to be switched into a coaxial line or bypassed. 24VDC coil. #10CSA2/2-01, used, \$34.00

Miniature coaxial SPDT can relay for low level RF switching. Also has SPDT contacts. 26.5 vdc 675 ohms. HI-G d'Italia #RFK 6396, \$12.00

Same as above, but relay is in metal box with 6 very small coax connectors (SML ??) #RE-612-2, \$14.00

Broadband Coaxial Protector by Polyphaser, has male to female type N connections. Frequency coverage is 50MHz to 700MHz. Maximum Power: VHF 375W; UHF 125W. 1.8x2.5x1.5, #IS-50NX-C1, Used Excellent, \$29.95 ea.; 5/\$100.

8PST CONTACTOR, rated 660 VAC 6 amps; coil 80 VDC. 3x4.5x1.8, 2#. Schindler #MRG-44E, NEW, \$16.95

INTELLITEC Special Latching Relay made for the RV industry to insure that the battery is disconnected when the RV is not being used. 12 VDC Latching relay w/ 100 ADC SPST contactor. Momentary application of 12 VDC causes activation. Reverse the 12 VDC and the contacts open. Use for your amateur radio equipment or solar system applications. 3.5x3.5x2.5; 1 lb #01-00055 \$19.95

12V 50 Amps Continuous Duty Single Pole Normally Open Contactor, 2.5x3.4x2.3, #622-12V, \$4.95

## Attenuators

ELCOM ATTENUATOR, 10DB w/ SMA conn; Ag-plated, 1.5x0.5" dia. #AT-53-10, \$12

VARIABLE 6-STEP ATTENUATOR, ladder network in 10:1 ratio. Attenuates 0.1 V down to 0.1 uv; 50 ohm impedance. BNC input & output connection; shaft 3/4"Lx 1/4" dia with gear drive. Silver-plated; p/o 0.01 to 50 MHz RF generator. 3.5x4.8x3.5, 4 lb #AT101/URM25, used, \$22.00

75 ohm Alan Industries Fixed Attenuator, 3.0DB at 30MHz and 3.3DB at 1GHz. Has a BNC male on one end and a BNC female on the other. #75SP3, \$14.00

ROTARY TURRET 50 OHM COAXIAL ATTENUATORS from Empire NF-105 field intensity meter; to operate pull knob and rotate to next index. Mechanism is spring loaded to engage next attenuator element; 5"Lx3.4" dia, 5 lbs.

0-20-40-60-80 db with BNC female chassis connectors on 7.5" cables. #ATTNF105-0-80, Used, \$27.95

40-50-60-70-80-90 db; female BNC chassis & male N conn on 7.5" cable, #ATTNF105-40-90, \$23.00

One of each attenuator, #ATTNF-105-PR, \$46.00 Miniature Tap Switch, 1 pole 7-position rated 1 amp 1x1/2". #MTS-7, \$2.50

## Tap Switches

6-POSITION CERAMIC RF TAP SWITCH for 100 W xmitter; 2.3x2.3x1.8, 1 lb. #329605, \$4.50; 10 for \$37.00

THREE DECK 7-POSITION TAP SWITCH w/ screw terminals; 10 amp shorting contacts. 1.8x2.3x1 + 1.3" x 0.3" dia shaft. #ES32303LM, \$4.50

PLACE YOUR ORDER OVER THE WEB AT FAIRRADIO.COM







## Coax Connectors

### TYPE UHF:

#PL-259 UHF Male, Generic, \$1.10 each 10 /\$10.00  
 #SLV-PL-259, As above but silver plated, \$2ea; 10/\$15  
 #83-1SP-1050, PL-259 by Amphenol, \$2.69ea; 10/\$24  
 #83-1SP, As above but silver plated, \$5.38ea; 10/\$47  
 #SO-239 UHF Female, \$1.10 each 10 /\$10.00  
 #SH-SO239 1 hole mount female barrel mount, \$1.  
 #PL-258 UHF Female to Female, \$1.75 ea 10 /\$16.  
 #M-358 "T" for two PL259 & one SO239, used, \$1.50  
 #83-185-RFX, UG-175 reduces PL-259 to RG-58  
 coax, \$0.60 each; 10/\$5.50  
 #83-168-RFX, UG-176 reduces PL-259 to RG-59  
 coax, \$0.60 each; 10/\$5.50

+++++

CONNECTORS & ADAPTERS: (m) male, (f) female,  
 (bulk) bulkhead, (rec) receptable, (r/a) right angle;  
 (U) = Used, (Un) = Unused.

### TYPE BNC:

UG-88m (RG-58) Used, \$1.00 ea  
 BNC (m) (RG-58) Amphenol, New, #31-2-RFX, \$2.65; \$11.50  
 UG-260 m (RG-59) U \$1.00 UG-290 f panel U \$1.25  
 -274 "T" 2-f to m, U \$4.50 -909 bulk U \$1.25  
 -273 to UHF, U \$2.50 -306 R/A adapter,  
 -282 to post \$1.75 used, \$2.00



BNC "T" like UG-274. Useful  
 around the shop. Nickel plated.  
 #274-T, Un, \$3.50

### TYPE N:

UG-21 male (RG-8), Used, \$3.50  
 Type N male (RG-8) Amphenol, New,  
 #82-202-RFX, \$6.35; 5 / \$28.95  
 UG-58 f chassis U \$3.00 UG-27 R/A m-f U \$2.50  
 -536 m (RG-58) U \$2.50  
 -593 f bulkhead for R-59-62, used \$1.75  
 -1052 f bulkhead for RG-58, used, \$1.75

### TYPE C:

UG-643 "C" female-female, \$3.00  
 UG-573 Type "C" Male Unbalanced Silver Plated  
 Connector/ R-390A. #UG-573, Unused cut-off, \$6.50

### TYPE TNC:

Gremar #6000 (m) used, \$1.75 ea  
 #6177 m R/A Un \$3.50 #6098 to N f bulk U \$3.50

### TYPE HN:

UG-59 male Used, \$6.00

UG-920 m-f R/A, \$7.00

### R-390A Connectors:

Twin-Ax male, Amphenol, New,  
 #82-5589-RFX, \$9.95; 3 / \$25.00  
 Mini-BNC p/o R-390A, #390A-MBNC, used, \$3.00  
 As above but chassis, #390A-MBNC-CH, used, \$3.00

Hard to find R-390A balanced  
 input adapter. Goes from Twin-ax  
 male to a UHF female. Unused, #UG-970, \$40.00



## Trompeter



Trompeter Cable, 10 inch  
 patch cord with two gold plated  
 trompeter PL150-29 mini  
 patch plugs. Used good con-  
 dition, #TRMP-1, \$14.00  
 As above except 2 feet long. #TRMP-2, \$16.00

## Helix Type N

Type N male connector by  
 Andrew. Works with Helix FSJ-  
 50B coaxial cable. Comes with  
 tubing for strain relief. Coupling torque is 22-25  
 in-lb. #F4PNM-H, Unused, \$19.95; 4 for \$69.95



## Cable Ties



1000 piece CABLE TIES IN PLASTIC CAN.  
 0.1 x 3.9": 100 pcs blue, 100 pcs red,  
 100 pcs white, 100 pcs yellow  
 0.14 x 5.9": 100 pcs white, 100 pcs blue,  
 100 pcs green  
 0.14 x 7.9": 200 pcs white  
 0.14 x 11.8": 100 pcs white

Material: polyamide (nylon 6.6) as specified  
 in MIL-S-23190 self-extinguishing. Temperature: -  
 40F to +230F. #K/TF1000, New, \$15.98

As above but 300 piece kit.  
 0.1 x 3.9": 25 pcs green, 25 pcs yellow,  
 25 pcs black, 25 pcs red, 50 pcs transparent  
 0.14x7.9": 50 pcs red, 50 pcs blue, 50 pcs  
 transparent. #K/TF300, New, \$5.50

100 pieces of Nylon Black Cable Ties, 4" x 0.1", -  
 40F to 230F, #K/TFB3, New, \$1.00

As above except, 5.5" x 0.14", #K/TFB4,  
 New, \$1.78

As above except, 8" x 0.14", #K/TFB5,  
 New, \$2.78

As above except, 11.4" x 0.14", #K/TFB6,  
 New, \$5.50



All nylon ties listed below are common locking  
 type and are standard 0.12" width.  
 #CT-5.5, Black 5.5" overall length, 50/\$4.; 100/\$6.50  
 #CT-5, Natural 5" overall length, 50/\$4.; 100/\$6.50

As above except 0.06" width. Bundle dia. is 5/8".  
 #CT-4, Black 4" overall length, 50/\$3.00; 100/\$5.00  
 #CT-4.5, Natural 4.5" overall length, 50/\$3.; 100/\$5.

Tie-Down Nylon Cable Tie - Ideal for fastening  
 wiring or harnesses to chassis or mechanical  
 assemblies. Accepts #10 screw. Maximum bundle  
 diameter of 1 1/4". Overall length of 6".  
 Standard 0.19" width.

#TCT-6B, Black color, 50/\$5.50; 100/\$8.00  
 #TCT-6N, Natural color, 50/\$5.50; 100/\$8.00

## Electrical Tape

Set of 6 rolls of electrical tape in dif-  
 ferent colors: yellow, white, green,  
 black, blue, & red. Ideal for color  
 code wiring your audio systems,  
 computers, etc... 3/4" wide. Length  
 is 16.4 feet per roll. #T5S, New, \$1.99



## AC Line Cords

### 3-COND LINE CORDS:

18 AWG 3-blade line coil cord;  
 Stretches to 10 feet. with AC  
 Plug. #SJO-18, \$3.00

10 ft flat w/ R-A plug; #14 wire. #14-10FT, \$3.00

BUSINESS MACHINE CORD,  
 3-blade type w/ AC plug; 6' black, 18 AWG.  
 #HP-NS, \$2.50

16 AWG 3-blade line cord; no AC plug.  
 #16-HP-NP, \$2.50

HEATER CORD type HSJ, 3-cond 7.5' #16 wire; grey  
 molded R/A plug. #HSJ-16, \$2.50

## Heat Gun & Shrink



1200 watt NTE Heat Gun,  
 Electronic variable tem-  
 perature control dial with  
 temperatures ranging  
 from 250F - 1100F / 120C  
 - 590C. Two speed  
 motor. Heat guard. High  
 quality heat element and

solid state construction. Also strips paint and var-  
 nish. Thawing and drying. Shrinking and soften-  
 ing. #HG-001VT, New, \$41.99

4 Foot NTE Heat Shrink Tubing. Shrink  
 Temperature: 120C. Shrink Ratio - 2:1.  
 Example - 1/16" shrinks to 1/32".  
 Comes in four colors: Black - "BK"; Clear  
 - "CL"; Blue - "BU"; Red - "R". New.

1/16", #47-20148-(Specify Color), \$0.87  
 1/8", #47-20348-(Specify Color), \$0.91  
 1/4", #47-20548-(Specify Color), \$1.30  
 3/8", #47-20748-(Specify Color), \$1.56  
 1/2", #47-20848-(Specify Color), \$2.02  
 3/4", #47-20948-(Specify Color), \$2.70  
 1", #47-21048-(Specify Color), \$3.71

1/16" black Polyolefin. 90°C shrink temp. Made  
 by Sumitomo. #11438-(specify feet).  
 10ft \$3.50; 25ft \$7; 50ft \$12; 100ft \$20

3/8" Dia. Alpha Irradiated PVC Heat  
 Shrink Tubing. For wire harness jac-  
 eting and covering handles, capaci-  
 tors, and terminals. Rated 105 degree C. 2:1  
 shrinkage ratio at 175 degree C. 3/8" diameter.  
 #FIT-105-3/8, Unused, 10 ft for \$4; 25 ft for \$7.50

## NTE Hook-up Wire

Stranded Hook-up Wire by  
 NTE on the reel. Rated 300V  
 minus 90 degree Celsius.  
 Comes in the following col-  
 ors: Red "R", Black "BK",  
 White "W", Blue "BU",  
 Yellow "Y". New.



Gauge	Length	Part Number	Price
18	25ft	WH18-(specify color)-25	\$4.59
20	25ft	WH20-(specify color)-25	\$4.07
22	25ft	WH22-(specify color)-25	\$3.73
24	25ft	WH24-(specify color)-25	\$3.33
26	25ft	WH26-(specify color)-25	\$3.43

18	100ft	WH18-(specify color)-100	\$9.63
20	100ft	WH20-(specify color)-100	\$7.93
22	100ft	WH22-(specify color)-100	\$7.23
24	100ft	WH24-(specify color)-100	\$5.87
26	100ft	WH26-(specify color)-100	\$5.38

### TEFLON Hook-up Wire by NTE on the reel.

Rated minus 200 degree Celsius. Comes in the fol-  
 lowing colors: Red "R", Black "BK", New.

Gauge	Length	Part Number	Price
18	25ft	WT18-(specify color)-25	\$14.10
22	25ft	WT22-(specify color)-25	\$8.87

### SURPLUS HOOK-UP WIRE

Vinyl-covered hook-up wire, all stranded copper;  
 no color choice. May not have continuous lengths  
 over 1000 ft. Allow 2 lbs sh weight per 100 feet

Part#	Gauge	Price
HUW-20,	20	\$16/500 ft
HUW-22-SH, 22 SHIELDED		\$4.50/100' \$26/1K' \$85/5K'
HUW-24,	24	\$16/500 ft
HUW-26,	26 SOLID	\$7/500' \$10.50/1000' \$35/5000'

**CHECK OUT OUR LATEST FEATURE ITEMS AT FAIRRADIO.COM**



## Coax Cables

COAX CABLES with connectors from military equipment. USED/UNUSED:

#CG-409 CABLE, 8ft RG-58 with two BNC, \$4.75  
#RG-213-1, 16" RG-213 coax w/ R/A N conn. \$6.00  
#CG-3444, 42" RG-214 w/ 2 UG-573 "C" conn., \$10.50  
#A303892-10, SMA (m): TNC (f) 8" jumper; \$5.25

RG-142 Cable 3' 3" long with type SMA screw on male going to a type N female on the other. The type N female does not have any nuts. Cable is rated for 50 ohms 5000 volt. Diameter of the cable is similar to RG-58. Various manufacturers. 2 lbs sh. #RG-142-3, Used excellent condition, \$7.50

## - - - TYPE N - SMA CABLES - - -

From cellular installation:

Type N male to SMA male w/ 12" coax. #N-SMA-12, \$3.50

Type N male to R/A N male w/ 29" coax. #N-RAN-29, \$3.50

Type N female to SMA male w/ 33" coax. #FN-SMA-33, \$4.50

BNC male to right angle BNC male six foot RG-58 coaxial cable. #CG-1773, Unused, \$6.00; 5 for \$20

W-128 Single conductor antenna wire as used on many radio sets from WW2 thru the 1970's. Removed from installation kits, good condition.

#W-128-5, 5 feet, \$9.50; #W-128-9, 9 feet, \$14.00

## Hardline Coax

Hardline 50 ohm Coax, 3/8" dia aluminum jacket, foam insulated. 9 gauge center conductor. 3/32" dia solid copper wire. 25pf per foot nominal impedance, impedance 50 ohms, 2500 vrms: #HLCX-3/8-(specify feet), \$7.5/ft; 100 ft/\$63.00 500 ft/\$255.00

MINI-FLEXIBLE HARDLINE COAX CABLE, Belden 1573A (RG-402 50 ohm) with SMA connectors.

M=male, F=female, RA=right angle

#507-174A, M-RA to M-RA, 3.5" L, \$10.50  
#507-175A, M to F N-chassis conn, 8"L, \$14.00

0.5" dia FLEXIBLE HARDLINE (Cablewave 16733) with male N-connections (1-right angle); Various lengths as noted; 5 lbs sh. #HDL-16733- (length):  
6 ft, \$21. 10 ft, \$25.  
12 ft, \$27. 22 ft, \$45.

## SDU-5 Wire Kit

Wire Kit provides parts to connect an SDU-5/E flasher to a vehicle (12/24V) battery or wiring. Kit includes the following: Voltage Converter, Adapter, (2) 3/8" Ring Lugs with Wire, (2) #8 Spade Lugs with Wire, (2) Battery Clips with Wire, (4) Connector Splices, (4) 3/8"-16 Nut. (2) 11.5" Cable Tie, 7.25" Cable Tie, and a Velcro Strip. 3 lbs sh. #CK-SDU, Unused, \$10.00; 3 for \$25.00

## Wire Galore !!

#22 Cloth Covered Stranded Hook-up Wire. Color choices: red/green, orange, orange/green, blue/red, green, PLEASE SPECIFY.  
#WCC-22-(specify color)-(specify feet), \$7.50/25ft, \$23.00/100ft

Twisted two conductor 22 gauge stranded cable with tin shield. 19 strands per conductor. Has white plastic jacket. Mfg by Brand-Rex. #WT-22, \$34.95 for 500 foot spool

2 conductor w/ ground and foil shield 22 AWG CL3R Instrumentation Cable E57497 with reel. 1000 foot. 75 deg C. Blue color. 21 lbs sh. #E57497, \$34.95

Black 18 gauge 2 conductor Cable by Carol. Type SVT. 300V 60C. 250 feet. 11 lbs sh. #86002, Unused, \$26.95

Gray 24 gauge 2 conductor Cable. Ideal for intercom use and other low voltage applications. Unused, 100 feet Less reel, #WR-24-2-100, \$9.50; 1000 feet with reel, 14 lbs sh. #WR-24-2-1000, \$23.00

3 conductor 12 awg stranded wire. 65 strand 30 awg. 0.045 PVC jacket. Max 300 volt. Black color. 17 lbs shg per 100 foot. #SJTOW-A, Less than 100 feet, \$0.30 per foot 100 feet or greater, \$0.25 per foot

Twisted Twin-Axial RF cable with braid silver shield. Both conductors are 24 gauge with 19 strands per conductor. Cable rated at 77 ohm impedance. Light blue jacket. #WT-24-(specify feet), \$30.00/100ft; \$110.00/500ft

GUY WIRE, MACWHYTE Clear coated 1/4 inch stainless steel wire rope. 7x19. Unused, 100 feet, #GY-WR-100, \$85.00 500 feet, #GY-WR-100, \$350.00

## Crimping Tool

80-PC TRAY CARD WITH CRIMPING TOOL. Crimping tool comes with a variety of different spade terminals, ring terminals, etc.. #BL/FCT, New, \$8.50

HEAVY-DUTY CRIMPING TOOL FOR FAST-ON. For crimping insulated terminals red awg 22-18, blue awg 16-14, yellow awg 12-10. 8.7" long. #VTHCT, \$25.98

CRIMPING TOOL FOR F & BNC CONNECTORS. For crimping cables: BNC, TNC, UHF, SMA - For RG cable 59, 62, 140, 210, 55, 58. Size: 9.0". #VTFBNC, New, \$23.99

COAX CRIMPING TOOL RATCHET TYPE. For crimping BNC/TNC/NF. For RG cable: 59, 62, 140, 210, FIBREOPTIC. Size: 8.7", #VTBNC, New, \$19.95

## Cutters & Strippers

UNIVERSAL CUTTER - HEAVY-DUTY. 6.5" long. #VT09, \$4.90

HQ MINIATURE DIAGONAL CUTTER. Carbon steel, hardened. Black oxide finish. 4.3" long. #VT057, \$2.99

MICRO CUTTING NIPPERS. For precision work. 5.1" long. #VT100, \$2.99

HEAVY DUTY MINIATURE DIAGONAL CUTTER. Carbon steel, hardened. Black oxide finish. 4.9" long. #VT106, \$2.50

CABLE CUTTER. Curved blade cuts wires up to 0.4". 6.5" long. #VTCC, \$7.30

5" ELECTRICAL CUTTER & STRIPPER. Strips wires from 20-24 AWG and cuts wires with a max.  $\bar{y}$  of 0.05". 4.7" long. #VT109, \$4.60

Adjustable Cutter/Stripper. Strips AWG 30-10 wire. Adjusts with a screwdriver. High carbon steel. Precision ground cutting surface. #200-007, New, \$4.69

Precision Wire Stripper. Plier type nose. Cutter jaws. Soft grip handles. Spring return. New. For AWG 22, 20, 18, 16, 14, 12 & 10, #200-010, \$7.99 For AWG 30, 28, 26, 24, 22, 20 & 18, #200-001, \$9.29

## Pliers

UNIVERSAL PLIERS - HEAVY-DUTY. 7.5" long. #VT03, \$4.99

HEAVY-DUTY LONG NOSE PLIERS. 6.0" long. #VT05, \$4.99

HQ MINIATURE FLAT NOSE PLIERS. Carbon steel, hardened. Black oxide finish. 4.9" long. #VT054, \$2.99

HQ MINIATURE BENT NOSE PLIERS. Carbon steel, hardened. Black oxide finish. 4.9" long. #VT055, \$2.99

HQ MINIATURE LONG NOSE PLIERS. Carbon steel, hardened. Black oxide finish. 4.5" long. #VT056, \$2.99

TOOL SET / 5PCS DIFFERENT PLIERS. Stainless-steel precision pliers set (5 pcs) : diagonal cutter, top cutter, bent nose pliers, flat nose pliers, long nose pliers. #VTSET, New, \$9.99

HEAVY DUTY TOOL SET - 3 PCS. Universal pliers, heavy-duty cutter, long nose pliers. New, #VT33, \$10.60

CALL US AT 419-223-2196 or 227-6573

24 HOUR FAX 419-227-1313



## Vises



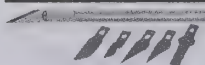
**VACUUM TABLE VISE WITH STANDARD HEAD.** Turns and rotates in all directions. 75mm jaws with protective detachable pads. Opening 70mm. With vacuum base: easy to mount on all flat surfaces, can also be mounted with screws. 5lbs.

7.3x6.2x6.2, #VTTV, New, \$25.90

**TABLE VISE WITH STANDARD HEAD.** Professional quality for this metal vise for table-screw mounting. Jaw opening 3.0". Rotates 270 degree. Equipped with a fast mounting system. Height: 12.0". 6 lbs sh. #VTTV2, New, \$27.80



## Knives & Knife Sets



**PRECISION KNIFE WITH 5-PC BLADE SET.** 5.7" long. New, #VTK1, \$1.70

**HEAVY-DUTY KNIFE WITH 5-PC BLADE SET.** 5.1" long. New, #VTK2, \$1.70



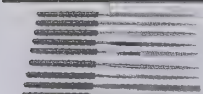
**13-PC HEAVY-DUTY KNIFE SET.** Contains 3 cutters with blade and 10 spare blades. New, #VTK7, \$3.40

**Utility Knife with lock.** Blade snaps off for sharp tip. 4.9" long. New, #VTK3B, 2 for \$1.00; 5 for \$2.00

As above except: Plastic handle with metal protection, 6.3" long. New, #VTK5, \$1.50

**Utility Knife with metal housing.** High-Q lock button. Set of spare blades. 6.1" long. New, #VTK4, \$2.50  
Five spare blades for above, #VTSB3, \$0.99

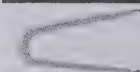
## Diamond Files



**SET OF DIAMOND FILES - 10PCS.** Powder-coated. 4.7" long. New, #VTDF1, \$9.00

**SET OF DIAMOND FILES - 5PCS.** Powder-coated. 5.5" long. New, #VTDF2, \$4.30

## IC Extractor



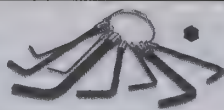
**IC EXTRACTION TOOL.** 4.1" long. #VTIC, \$1.98

## Radio Tuning Tools

**6-PC PLASTIC TUNING NEEDLE SET.** Comes with a variety sizes. #VTPT, New, \$5.30

## Hex Wrench Set

**HEX KEY WRENCH SET - 8PCS.** Hex: 0.06", 0.08", 0.10", 0.12", 0.14", 0.16", 0.20", 0.24". New, #VTHX8, \$1.39



## Screwdrivers

### SCREWDRIVERS

**HANDLE:** Swivel-handed cap and color-coded caps for easy identification. User-friendly grips for improved comfort. Special handle for good torque. **BLADES:** Nickel-chrome molybdenum. Black oxidized tips for greater durability and accuracy. Plated blade to reduce glare and reflection. Horizontally ground tips for greater torque.

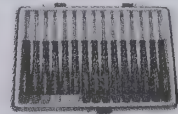
**Philips type:**  
#0, 4.7" long, #VTC1, \$3.90  
#0-3, 6.7" long, #VTC2, \$2.70  
#1, 10.0" long, #VTC3, \$4.20

**Slotted type:**  
0.06", 4.7" long, #VTF1, \$2.30  
0.09", 6.7" long, #VTF2, \$2.50  
0.14", 8.1" long, #VTF3, \$3.60



### ELECTRONIC SCREWDRIVER SETS

Ideal for TV sets, communication instruments, optical instruments, cameras, computers, VCRs, telephones, etc.

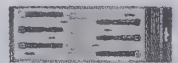


Slotted: 0.08"x1.6", 0.10"x1.6", 0.12"x1.6", 0.14"x1.6".  
Philips: PH#00x1.6", PH#0x1.6", PH#1x1.6".  
#VTSET13, \$4.80

Slotted: 0.12"x1.6", 0.08"x1.6", 0.10"x1.6", 0.14"x1.6", 0.16"x1.6".  
Philips: PH#00x1.6", PH#0x1.6", PH#1x1.6", PH#2x1.6".  
Torx: #T6x1.6", #T8x1.6", #T9x1.6", #T10x1.6", #T15x1.6", #T20x1.6".  
4.7" long. #VTSET15, \$11.50

**Chrome vanadium steel blade, satin finish.** Lengths: 4 x 6 1/2" and 11 x 4 3/4".

Torx: #T6, #T7, #T8, #T9, #T10, #T15, #T20. Slotted: 0.08", 0.10", 0.12", 0.16".  
Philips: PH#000, PH#00, PH#0, PH#1. #VTSET16, \$17.00



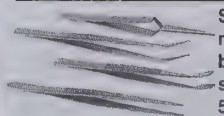
**Black oxidized tips. Plastic handle with swivel-headed cap.**  
Slotted: 0.09"x3.0", 0.12"x3.9", 0.16"x5.9".  
Philips: #00x3.0", #0x3.9", #1x5.9".  
#VTSCRSET, \$4.80

**Chrome-vanadium. Fully insulated. Red plastic grip.** Slotted: 0.10, 0.12, 0.14 2 Philips.  
#VTSCRSET5, \$2.50

**Includes voltage light tester (110-500V).** Slotted: 0.24"x5.9", 0.20"x4.9", 0.16"x3.9", 0.16"x3.7", 0.10"x3.0".  
Philips: PH#0, PH#1, PH#2. #VTSCRSET1, \$4.80

**Includes voltage tester with neon indicator (230-250V).** Fully insulated (1000V). Slotted: 0.16"x3.9", 0.22"x4.9", 0.26"x5.9".  
Philips: PH#0x3.0", PH#1x3.9". #VTSCRSET7, \$9.00

### Tweezers

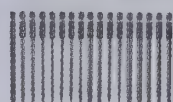


**SET OF 4 TWEEZERS.** Anti-magnetic stainless steel. 1 x bent nose, 1 x flat spade, 1 x self-closing and 1 x normal. 5.3" long. New, #VTTWSET, \$2.50

**SET OF 4 TWEEZERS - NON-CONDUCTIVE.** 5.3" long. New, #VTTWSET2, \$2.50



### SECURITY SCREWDRIVER SETS



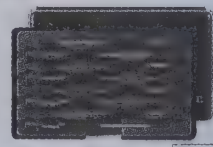
**Contents - 1 x quality handle.** 6 x inch socket: 5/64"x105, 3/32"x105, 7/64"x105, 1/8"x105, 9/64"x105, 5/32"x105. 6 x metric socket: 2.0x105, 2.5x105, 3.0x105, 4.0x105, 5.0x105, 6.0x105. 4 x tri-wing: #1x105, #2x105, #3x105, #4x105. 1 x cross: PH2x105. 1 x flat: 2.0x105. Comes in a plastic case. #VTBT7, \$33.95

**Contents - 1 x quality handle.** 7 x torx: T8x105, T10x105, T15x105, T20x105, T25x105, T27x105, T30x105. 3 x four-wing: 6x105, 8x105, 10x105. 4 x U-shape: 4x105, 6x105, 8x105, 10x105. 1 x cross: PH0x105. 1 x flat: 3.0x105. #VTBT8, \$29.95

### PRECISION SCREWDRIVERS (MICROTIP)

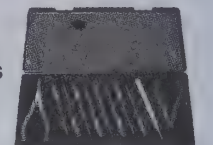
**Special handle with swivel cap.** Black tip, chrome-molybdenum vanadium steel. Features - **ROTATING HEAD:** to facilitate support and rotation control. **HANDLE:** varying diameter for flexible grip position and torque high impact resistance, cadmium-free material, easy to recycle. **TAPERED GROOVE:** for better grip and faster rotation. **BLADE:** made of high-quality alloy chrome-vanadium steel, heat-treated. **BLACK TIP:** for high precision, protection from corrosion. **COLOR CODED:** for quick size selection. **METAL BALL:** for easier operation.

Slotted: 0.08"x2.9", 0.10"x2.9", 0.12"x2.9", 0.14"x2.9", 0.16"x2.9".  
Philips: PH#0-0x2.9", PH#0x2.9", PH#1x2.9".  
#VTSET11, \$25.70



Torx: #T5x1.6", #T6x1.6", #T7x1.6", #T8x1.6", #T9x2.9", #T10x2.9", #T15x2.9", #T20x2.9".  
#VTSET12, \$25.70

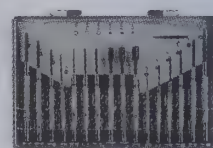
**SET OF 2 PLIERS, TWEEZERS AND 8 SCREWDRIVERS (MICROTIP).** 4" long nose pliers. 4" diagonal pliers. 4.9" tweezers. Slotted: 0.05"x1.6", 0.06"x1.6", 0.07"x1.6", 0.08"x1.6", 0.09"x1.6".  
Philips: PH#000, PH#00, PH#0. #VTSET14, \$49.95



**ELECTRONICS BIT SET (19PCS) WITH SCREWDRIVER (MICROTIP).** 20-pc precision bit set. Philips: PH#0-0, PH#0. Slotted: 0.08", 0.10", 0.12", 0.16". Torx: #T6, #T7, #T8, #T9, #T10. Hex: 0.06", 0.08", 0.10". Ball: 0.06", 0.08", 0.10". Pozzi: PZ#0-0, PZ#0. #VTSET9, \$25.70

**TOOL SET.** Ideal for TV sets, communication instruments, optical instruments, cameras, computers, VCRs, telephones, etc.

**Swivel-headed cap.** Black oxidized tips for greater durability and accuracy. **PRECISION SCREWDRIVERS -** Philips: PH#1-1, PH#1-2, PH#0, PH#0-2. socket: 0.12", 0.16", 0.20". Hex: 0.06", 0.08", 0.10". Slotted: 0.04", 0.06", 0.08", 0.09", 0.12", 0.15". #VTSET5, \$3.70



**10-PC SCREWDRIVER SET.** The bitholder has a holder for bits on both sides. Comes with 10 bits: 2 x slotted, 2 x philips, 3 x hex and 3 x torx. #VTS2, \$2.78



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## Bit Sets



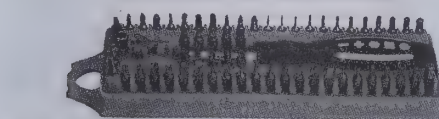
Consists of the following:  
Phillips bits: PH.0, PH.1, PH.2 (5x), PH.3; Pozzi bits: PZ.0, PZ.1, PZ.2 (5x), PZ.3; Square bits: S0, S1, S2, S3; Flat bits: 3, 4, 4.5, 5, 5.5, 6, 6.5, 7, 8mm; Antenna remover bits: 4,

6, 8, 10; Torx bits: T8, T10, T15, T20, T25, T27, T30, T40, T45; Tri-wing bits: 6, 8, 10; Torx with center bits: T8, T10, T15, T20, T25, T27, T30, T35, T40; Four-wing bits: 1, 2, 3, 4; Metric hex bits: 1.5, 2, 2.5, 3, 4, 5, 5.5, 6, 8mm; Clutch bits: 1, 2, 3; Fractional hex bits: 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4; Dodecagonal torx bits: M5, M6, M8; Metric hex with center bits: 2, 2.5, 3, 4, 5, 6mm; Fractional hex with center bits: 5/32, 9/64, 1/8, 7/64, 3/32, 5/64; 1 wing nut driver; 4 extension bits - socket bit holder 1 pc, magnetic bit holder 1 pc, 1/4" sq. x 1/4" x 2" extension 1 pc, 1/4" sq. x 1/4" x 1" extension 1 pc. #VTBT11, New, \$11.00

### SECURITY BIT SET / 33 PCS.

Contents - Torx: #T8, T10, T15, T20, T25, T27, T30, T35, T40. Hex: #5/64", 3/32", 7/64", 1/8", 9/64", 5/32". Hex: #2, 2.5, 3, 4, 5, 6. Tri-wing: #1, 2, 3, 4. Fork: #4, 6, 8, 10. Four-wing: #6, 8, 10. Magnetic bit holder: 1/4" hex. #VTBT5, New, \$7.80

BIT SET / 33 PCS. Contents - Hex: #2, 2.5, 3, 4, 5, 6. Torx: #T10, T15, T20, T25, T30, T40. Slotted: 3, 4, 5, 6, 7. Phillips: 1 x PH0, 2 x PH1, 3 x PH2, 2 x PH3. Pozzi: 2 x PZ1, 3 x PZ2, 2 x PZ3. Magnetic bit holder: 1/4" hex. #VTBT6, New, \$4.50



- M5, M6, M8
- C1, C2, C3
- 1/8", 3/16"
- 2mm X 2mm X 2mm
- S0, S1, S2, S3
- 1, 2, 3, 4, 5
- 0, 1, 2
- Wing nut driver
- 6, 8, 10
- PZ0, PZ1, PZ2
- 4, 6, 8, 10, 12

T-5, T-6, T-7, T-8, T-10, T-15, T-20, T-25, T-27, T-30, T-40

2mm, 2.5mm, 3mm, 4mm, 5mm, 6mm, 8mm, 5/64", 3/32", 7/64", 1/8", 9/64", 5/32"

1 Piece 1/4" x 60mm magnetic bits holder, 1 Piece bits holder socket, 1 Piece socket adapter, 1 Piece ratchet screwdriver. New, #800-081, \$20.99

## Tool Kits



41-PC TOOLSET. Head can be set at an angle of 0°, 45° or 90°. 38 bits: 14 hex sockets, 16 torx bits, 3 slotted, 3 phillips and 2 S-bits. With plastic carrying case. #VTTS3, New, \$9.50

### UNIVERSAL CELLULAR PHONE TOOL KIT.

Screwdrivers: U-shaped, curved, needle tip, 1 x phillips, 1 x slotted, 3 x torx and 2 antenna removers. With colored swivel caps. #VTSET8, New, \$9.00



## NTE Solder Gun



NTE Solder Gun, 100 watts heats up to 750F in 25 seconds; 140 watts heats up to 950F in 40 seconds. Large dual heat trigger switch for low/high watt. Temperature control. Long-reach tip and sturdy heating element connectors. Pre-focused light. 6 foot, 2 wire cord. #J-100, New, \$26.23

Two pack of nickel plated copper replacement tips for J-100 solder gun, #JT-104, \$3.87

## ECG Soldering Irons

Electric Corded Soldering Irons. Each of the soldering irons listed below feature a long life tip (nickel-iron plated copper) and a cool grip rubber handle. 25 Watt - Tip temperature 464F, #J-025, \$5.98 Replacement conical tip for J-025 (nickel plated copper); 2 tips/package. #JT-101, \$1.49

60 Watt - Tip temperature 860F, #J-060, \$8.83 Replacement conical tip for J-060 (nickel plated copper); 2 tips/package. #JT-102, \$2.82

Electric Corded De-Soldering Irons, 45 watt, Temperature 788F, Long life tip. #J-045-DS, \$12.78

Butane Torch Micro-Jet. Features the following: Auto ignition, Child safety lock, Instant 2500F micro flame, Powered by a refillable butane cartridge (included). #J-300, \$14.92

Two pack butane replacement cartridge for J-300. #JT-004, \$2.49

## Kester Solder Supplies

Pocket Pak .031 Dia. 0.5 oz. #83-4000-0000, \$2.32

Elec. Silver Solder, Box 0.35 oz. #83-7145-0415, \$2.50

Kwik-Draw .050 Dia. 1.3 oz. #83-3000-0000, \$3.32

One pound spool of Core Size 66, Alloy 60 / 40, Dia. in. 0.031, Gauge 21. #24-6040-0027, \$14.99

One pound spool of Core Size 66, Alloy 60 / 40, Dia. in. 0.062, Gauge 16. #24-6040-0061, \$13.50

SP44 Rosin Paste Flux 2 oz. #83-0000-0144, \$4.20

## 50 watt Solder Station



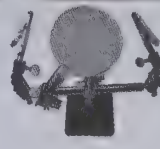
Soldering Station 50 watt 374-896F, Manual temperature setting, Electronic temperature control, Power-on LED indication, With ground output, Heater power for soldering iron is 50 watt. Requires 115VAC 60Hz. 7 1/4" x 3

31/32" x 3 1/2", 4 lbs sh. #VTSS5U, \$22.95; Spare bit, #BITS5, \$1.30

Soldering Station with LCD & Ceramic Heater 48W 150 - 450C, Manual temperature setting. LCD display with digital temperature scale.

Temperature preset on LCD display. With on/off switch. Ceramic heating element with temperature sensor. Standard tip included. Maximum heater power for soldering iron is 48W. Temperature range: 302 - 842F. Low-voltage iron: 24VAC. 7.3" x 4" x 6.7", #VTSSC40NU, \$79.95 Spare Bit for above: #VTSSC40N/SPB, \$1.60

## Soldering Tools



"Helping Hands" Soldering Aid with magnifier. Table top, weighted base. Multi-dimensional adjustment capability. Alligator style clips for holding subject work. #VTHH, \$4.80

6 Pc. Soldering Aid Set. 6 Double-ended picks and brushes. #VTSA, \$7.70

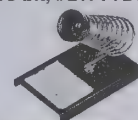


POWERFUL DESOLDERING PUMP. Teflon-nozzle. 10.8" long. #VTD1, \$3.50

EXTRA-POWERFUL DESOLDERING PUMP. Teflon-nozzle. 13.2" long. #VTD2, \$2.99

DESOLDERING PUMP WITH ANTISTATIC TIP. 7.5" long. #VTD3, \$6.40 Spare bit, #BITVTD3, \$2.90

H.Q. DESOLDERING PUMP. Aluminum body. 6.4" long. #VTD5, \$5.30; Spare bit, #BITVTD5, \$1.50



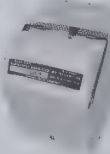
ECONOMIC SOLDERING IRON STAND. With cleaning sponge. #STANDLC, \$2.99

## Radiosondes



VAISALA RADIOSONDE, ultra-light disposable transmitter (400 MHz approx) is designed to be carried aloft by weather balloon and transmit data for air temperature, barometric pressure and humidity to a ground station. Consists of circuit board, dipole antenna, and trailing wire. Requires 9 V battery. Cute experimenter item! 12.5"H as shown; 3 lbs sh. #RS80, NEW, \$12 ea; 5/\$50.00

Radiosonde mfg by VIZ, transmits on 403 MHz RDF modulated signal; includes battery and separate antenna assy, transducer polishing cloth, baroswitch pressure calibration chart, and instructions. 4.8 x 3.8 x 12.3, 4 lbs sh. #ML659, Unused, \$14.95



AMT-4 Radiosonde Modulator originally was raised by a balloon into the sky to measure atmospheric conditions. Comes w/ barometric unit only.

Atmospheric pressure range 1060 to 5 mb(millibars) Resistive temperature element temperature +60 to -90 d C.

With schematic. #MD-147, Unused, \$10.95

Newer version of above. No data, but expect the ranges to be about the same. #MD-210, Unused, \$10 Original manual AMT-4A. #MM-AMT-4A, \$18.00

## Motorized Lens

MINOLTA MOTORIZED LENS, focal length 3 mm with 6 mm zoom assembly; probably used in copy machine. Front coated lens diameter 60 mm; rear 15 mm. Focus and zoom mechanism each has small DC gear motor which operates at about 30 RPM @ 5 VDC or 60 RPM @ 10 VDC. 5.5x5.5, 3 lbs sh. #LENS-36-98, Unused, \$23.00; 3 / \$60.00



**MANY ITEMS NOT LISTED - TELL US YOUR NEEDS**



## Peltier Device

**PELTIER THERMO-ELECTRIC COOLING MODULE 3A 15.4V 149F.** Melcor type: CP1.0-127-06L. I max.: 3A. Delta T max.: 65°C. voltage: 15.4V. Q max.: 25.7W. Number of couples: 127. Size: 1.2" x 1.2" x 0.14". 1 lb sh. #PELTIER1, New, \$14.80

**PELTIER THERMO-ELECTRIC COOLING MODULE 6A 15.4V 153F.** I max.: 6.0A. Delta T max.: 67°C. Voltage: 15.4V. Q max.: 51.4W. Number of couples: 127. Size: 1.6" x 1.6" x 0.15". 1 lb sh. #PELTIER2, New, \$14.95

## Dehumidifier Control

**HONEYWELL DEHUMIDIFIER CONTROL** as used in home dehumidifiers. Plastic element tape senses humidity and "opens" normally-closed 120 VAC contacts; has variable control. 1.8x4.5x1, 1 lb. #H46A1103, unused, \$3.50

## X-10 Controller

**Leviton Manual Controller.** Used to control light and appliance modules. Compatible with Radio Shack and Home Safe remote devices. Can control 256 "X10" device codes. Unit has 16 Unit Code Buttons. Also, has 6 Command Keys: On, Off, Bright, Dim, All Lights On, and All Off. The controller is equipped with a key-operated lock-out switch that can be set in the "ON" or "OFF" position. The controller will transmit command signals to modules in your control system only if this switch is keyed to the "ON" position. Key pad mounted in sturdy steel case. Requires 120VAC 60Hz. 8.3x6.7x4.5, 7 lbs sh. #X10-6242, Unused, \$12.00 ea, 2 / \$21.00, 4 / \$37.00

## Weaver D6 Scope

Quality 6 power scope fits common rifle mounts. Unfortunately scope is without cross-hair. Still a nice low-cost spotting scope! 12.3" long, 2lbs. #SCOPE-D6-U, Used, \$7; #SCOPE-D6-UN, Unused, \$14

## Grab Box

ASSORTMENT of used and unused commercial and government electronics parts such as assemblies, motors, coils, transformers, chokes, circuit boards, capacitors, resistors, and other usable items. Packed in 50 lbs cartons: #GRAB-ASST, \$14.00 ea; 2 / \$24.00 Allow for shipping charges!!

## Matched Meters & Rheostats

"Loaded" with prime "clean" parts for DC power projects! Panel includes:

- \* 0-30 VDC METER.
- \* 0-30 DC AMMETER.
- \* 4 ea 50 MV SHUNTS.
- \* 4 RHEOSTATS: 2 ea 225 W 3 ohms, 2 ea 150 W 2 ohms. \* 12 Circuit Breakers: 4 ea 32 VDC 8 amps 8 ea 32 VDC 20 amp. \* 12 ea 1N1184 DIODES.
- \* 4 ea 2.4" dia KNOBS and other parts. Panel is sold "less its On-Off and 4 STA selector switch. 18.8x23x6, 30 lb. #DAV-LCP, 2 for \$75.00 Manual Repro for above, #MM-DAV, \$12.00

## Ring Magnet

3.5" dia x 5/16" thick MAGNET with 1.9" dia open inner circle lifts about 8 lbs. 5" dia metal casing has mount flange to protect and isolate magnet; two wires attach to spring-loaded contacts. Use as magnetic antenna mount or in robotic, audio or science projects; 2 lb #MAG-S91, \$3.50; 7/\$12.00

## Electronic Ignitor

Fenwal Automatic Electronic Ignitor. Input 12 VDC. This looks like an ignitor for an oil furnace as it puts out a HV spark. Maybe neat for experiments. BE CAREFUL. 5.25 x 4.75 x 3 overall. 3 lbs sh. #05-159901-003, Unused, \$16.95

## Finger Stock

18" long x 1/2" ht strips of finger stock. Each individual finger has a width of 1/15" and a ht of 5/16". #FS-18, Unused, \$7.95 ea; 3 / \$20.00

## Experimenter's Paradise

**Motorola Control Receiver???** Great experimenter item. We have seen them in the past in some cities at intersections and believe their purpose was to intercept traffic signals when emergency vehicles needed to pass. Transistorized receiver covers 139.65 MHz with a five section preselector, crystal controlled oscillator and "Vibrasponder" tone detector which allows a SPST relay to be actuated by a tone in 600 to 800 Hz range. SPECIFY if tone-match required. Receiver is housed in a plastic protective case. Power required 24 VAC. Has internal transformer and power supply. 7.2" dia. x 6" Ht, 5 lbs sh. #15D82032, \$8.95 each 4 for \$29.95 #SCH-15D82032, Schematic Info, \$8.50

## Control Receiver

Scientific Atlanta Power Control Receiver Model DCU-1051B-01-00-S Series DCU-G-1530. Originally used by power companies to allow radio control of power usage. The units have receivers in the 150 mhz range as well as a 6 VDC contactor rated for 240 VAC 30A resistive. They are programmable and will work on the General Electric code format and/or the SA-105. Power transformer 240 VAC secondary approx 6 Vac. The weather resistant plastic case with gasket and snap closure is excellent for outdoor projects. Has molded on wall mounting brackets. Internal dimensions 9.5x7.4x3, 5 lbs sh. #DCU-1051B, Unused \$17.00 each; 3/\$38.00

## Military Flashlight

MX-991/U FLASHLIGHT official rugged right angle military type made in USA. Operate from two "D" cell batteries (not included). Clear diffuser, red signal, and blue spare lenses store in handle; metal belt clip. O.D. green plastic; current issue, 8.3"x2.2" dia. #MX-991, New, \$10.50

## Choke Cable

Six foot choke cable with knob with 2 inch pull. 2 lbs shipping. #CHEX-CBL, \$6.00

## Neoprene Gloves



Stanzoll Knit-Lined Neoprene Gloves. Multi-purpose chemical, abrasion and temperature resistant liquid-proof hand protection with durability and flexibility. Soft interlock knit lining insulates from heat and cold, absorbs perspiration, and provides easy on/off. Neoprene coating resists a broad range of chemicals. Non-slip "roughed" grip. Mfg by MAPA Professional. New, \$5.25 pair; 4 pair for \$14.00

Please specify model number when ordering. Sizes available:

Small: #S-432; Medium: #M-420  
Large: #L-408; Extra Large: #XL-348

## Teletypewriter

AN/UGC-129 Tactical Teletypewriter, full duplex teletypewriter has 16K RAM and QWERTY keyboard with Edit, Mode Select, and Memory. Printer speed 120 CPS: 69-80 character line, single or double line feed. 64-character ASCII subset; ITA5 or Baudot codes. 8 baud rates 45.5 to 2400. Uses paper rolls 216 mm W x 127 mm dia friction feed, single or multi-copy. Requires 115/230 VAC 47-400 Hz; connectors not available. 9.5x15 x18.5, 52 lbs. #UGC-129, Used repairable, \$59.50 Manual repro f/ later model (useful), #MM-UGC-129, \$40 w/ set

## Hydrophone

U S Navy NT-51038 Hydrophone, unused in wood box. Frequency range 1 - 20000 hz with eight Rochelle Salt Crystal doublets, each about 3 x 2 x 1 inch. Matching transformer for 25 ohm output. Rubber casing with castor oil immersed crystals approx 56 inches by 2.5 inches in diameter. The castor oil was used to couple the crystals to the water. Castor oil has deteriorated. Nine foot cable with two steel strain wires and two signal wires. A great experimenter item with a potential for listening to fish ???, boats, ships etc. Unused old stock in wood box. 29 lbs sh. #NT-51038, \$25.00

## Aircraft Gyros



LEAR 3-AXIS RATE SENSOR with three #2157HB rate gyros; 3.4x6.4x6, 9 lbs sh. Lear mfg. #2162C, \$200.00

## Metal Detectors

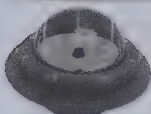
Metal Detector with Audio Discriminator. Hunt for coins, relics, jewelry, gold and silver just about anywhere. 3-tone audio discriminator. Headphones output. VU-meter. Waterproof search head (8" y). Adjustable stem. Requires three 9V-battery (not included). Drop shipped from Texas. #CS150, List Price, \$137.00; Our Price, \$102.95

Metal Detector with LCD Display. 7.9" waterproof search head. Large LCD display. Target ID. Depth readout. Sensitivity control. Variable discrimination. Variable notch. 3-tone audio discrimination. Low-battery indicator. 1/8" headphone jack. Requires two 9V-battery (not included). Drop shipped from Texas. #CS200, List Price, \$257.90; Our Price, \$178.69

EMAIL US YOUR INQUIRIES AT FAIRRADIO@FAIRRADIO.COM



## Ritchie Compass

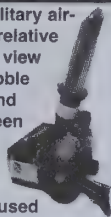


Ritchie Compass RU-90 has 5 degree increments. High-visibility blue 3" dial with extra large numerals. Flush mount sailboat racing style. Has 45° lubber lines and internal gimbals. Black in color. 4 lbs sh. #RU-90, Unused, \$150.00

## Aircraft Sextant

Sextant w/ periscope used in larger military aircraft to determine nightflight position relative to the stars. Has eyepiece with cup to view through right angle periscope with bubble level. Controls increase bubble size and adjust lens diffuser plus filters red, green & polarized. Also mechanical timer, 3-digit 100-turn counter dial, & transit case. Requires 28 V AC-DC for lights; 8"Wx13"Hx5.3"D, 23 lb #MS28011-1F, used w/ fiberglass case, \$69.50

#MS28011-NB, used, no case, no bubble, \$35.95



## Gun Sight



Military Optical Gun Sight. No information on this sight. No part numbers. It has a 4 inch lens that looks like it fits into a fixture. Eyepiece with focus ring, but because this is not a complete system we are unable to focus on anything. See [fairradio.com/optic.htm](http://fairradio.com/optic.htm) for more photos. 10.5x10.9x7, 25 lbs sh. #GUN-S, Used good condition. \$125.00

## 60 Second Timer

RHODES 60 SEC TIMER, times from 2 to 60 seconds; bell signals time elapsed. 3" dia plastic case; 1 lb. sh. #56414, Unused, \$3.00 each.



## TV / FM Attenuator



75 ohm TV/FM Attenuator by Blonder Tongue Labs stock #4890. 0-890MHz with two F connectors and adjustment for attenuation. #4890, Used, \$10.00

## Clock Mechanism

Quartz Clock Mechanism, for your self-made clock or as a replacement for a damaged clock. With suspension clip. Requires one AA-battery (not incl.). 2.2" x 2.2" x 0.6", #WCM1, \$1.50



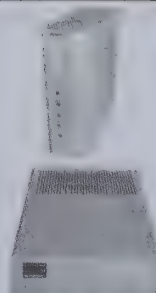
Quartz Clock Mechanism with Alarm Function, integrated buzzer with on/off switch. Comes with a set of clock hands. Requires one AA-battery (not incl.). 2.2" x 2.0", #WCM2, \$5.78

## Cable Modems

Cable modems removed from service, no info. Made by Hybrid Networks. May be pulls or defective pulls, we do not know. Each has what looks like tuner module and crystal oscillator. Includes wall power supply.

#CCM201, \$7.50; #N-202X, \$8

ZOOM 56K EXTERNAL PHONE MODEM w/ wall power supply #2386, \$4.00



## Test Equipment Blow Out!!

*All test equipment listed below is used reparable*

AIL 777 UNIVERSAL RADIOMETER \$150.00  
ALLISON LABS HP LO FILTER \$175.00  
AUSTRON 6014 FREQUENCY MULTIPLIER \$175.00  
BALLENTINE 323 TRUE RMS AC VOLTMEETER \$65.00  
BELL&HOWELL TSC-2000 SYSTEM CALIBRATOR \$395  
BERTAN 205A-10 10 KV POWER SUPPLY \$240.00  
BERTAN 210-05R 5 KV POWER SUPPLY \$240.00  
BIRD 5755 5KW 50 Ohm load for hardline \$250.00  
BOONTON 74D CAPACITANCE BRIDGE \$150.00  
BOONTON 75A-58 CAPACITANCE BRIDGE \$150.00  
BOONTON 76A 1 mhz AUTOMATIC CAPACITANCE BRIDGE \$395.00  
BOONTON 92AD RF MILLIVOLT less probe \$45.00  
BOONTON 93A-D TRUE RMS VOLTMEETER \$45.00  
BOONTON 230 SIGNAL GENERATOR POWER AMPLIFIER \$175.00  
COLLINS 618M-1 Transceiver \$125.00  
CURRY MCLAUGHLIN & LEN SMS-1 \$175.00  
CUSHMAN CE-21 FREQ SELECTIVE LEVER MTR \$175  
CYBERMASTER DOWNSTREAM 2000 CMD200 \$65  
DATA 1/0 SYSTEM 19 EPROM PROGRAMMER \$250  
DOVETRON MPC1000 RTTY \$95.00  
EATON NM-67 EMI FIELD INTENSITY MTR 1-18Ghz \$1400  
EDC 501 PROGRAMMABLE VOLTAGE STANDARD \$75  
ELECTRO METRICS SPD-125 SPECTRUM DISPLAY w/PP125 and Dumont 74-14 TIME BASE \$150.00  
FLUKE 332A DC VOLTAGE STANDARD \$450.00  
FLUKE 332D/AB VOLTAGE STANDARD \$495.00  
FLUKE 405AB HIGH VOLTAGE POWER SUPPLY \$295.  
FLUKE 893A AC DC DIFFERENTIAL VM \$50.00  
FLUKE 2201 SCANNER \$50.00  
FLUKE 5200A PROGRAMABLE AC CALIBRATOR \$300  
FLUKE 7600A SCANNER \$50.00  
GERTSCH Synchro Standard SS-2A \$150.00  
GR 602G DECADE RESISTANCE 111.0 OHMS \$60.00  
GR 1211C Unit Oscillator 0.5 - 50 Mhz \$50.00  
GR 1215C 50 - 500 Mhz Oscillator \$65.00  
GR 1218B 900 - 2000 Ghz Oscillator \$75.00  
GR 1232 TUNED AMPLIFIER NULL DETECTOR \$65.00  
GR 1264B Modulating Power Supply 200-300VDC 50mA 6.5VDC 1A \$150.00  
GR 1310 A 2-2mhz OSCILLATOR \$50.00  
GR 1346 AUDIO FREQ MICROVOLTER \$65.00  
GR 1362 220 - 920 Mhz Oscillator \$65.00  
GR 1396B TONE BURST GENERATOR \$125.00  
GR 1651A BOLOMETER BRIDGE \$75.00  
GUILDLINE 9120 POTENTIOMETER, \$400.00  
GUILDLINE 9160G POTENTIOMETER, \$299.00  
GUILDLINE 9577 PRECISION DIGITAL VOLTMEETER, \$500  
GUILDLINE 9719 VOLT RATIO BOX \$150.00  
HARRIS 9100 Facility Control \$69.50  
HP-201C OSCILLATOR, \$85.00  
HP-214A PULSE GENERATOR \$150.00  
HP-400E, ANALOG AC VOLTMEETER, \$69.50  
HP-400GL ANALOG AC VOLTMEETER, \$95.00  
HP-431C POWER METER \$75.00  
HP-940A FREQUENCY DOUBLER \$150.00  
HP-1206B OSCILLOSCOPE \$150.00  
HP-2590B MICROWAVE CONVERTER \$125.00  
HP-3310A FUCTION GEN \$125.00  
HP-3336B SYNTH-LEVEL GENERATOR \$395.00  
HP-3437A SYSTEM VOLTMEETER \$100.00  
HP3476B Digital Multimeter \$250.00  
HP-3495A SCANNER \$95.00  
HP-3575A GAIN PHASE METER \$375.00  
HP-3710A IF 1BB TRANSMITTER \$125.00  
HP-4204A 10HZ-10MHZ Digital OSCILLATOR \$250.00  
HP-4437A ATTENUATOR \$99.00  
HP-4815A VECTOR IMPEDANCE MTR NO PROBE \$295  
HP-5036 Microprocessor Lab in case \$175.00  
HP-5180A WAVEFORM RECORDER \$450.00  
HP-5315B 100 Mhz Universal Counter \$175.00  
HP-8012 PULSE GENERATOR \$125.00  
HP-8056A FILTER SET \$295.00  
HP-8402B CALIBRATOR \$75.00

HP-8614A SIGNAL GEN .8-2.4GHZ \$250.00  
HP-8616A SIGNAL GEN 1.8-4.5GHZ \$275.00  
HP-8690B Sweep Oscillator less plug in \$95.00  
HP-8708A Synchronizer \$125.00  
HP-8900B PEAK POWER CALIBRATOR \$95.00  
HP-37461 MONITOR DISPLAY \$150.00  
HP-54600A OSCILLOSCOPE \$450.00  
HOLT HCS-1AF PRIMARY ALTERNATING CURRENT SHUNT 20MA, 200MA, 500MA, 2A, 5A, 20A, \$300.  
HONEYWELL 1630 KELVIN DOUBLE RATIO BRIDGES \$250  
HUGHES STX-151 Microwave Transmitter \$295.00  
KEPCO 1500 VDC 10 Ma Power Supply \$85.00  
KROHN-HITE 330NR 2-20KC BANDPASS FILTER \$95  
KRON HITE 4141R Oscillator \$200.00  
L&N 2665 AYTTON SHUNT \$95.00  
L&N 4232 GUARDED WHEATSTONE BRIDGE \$100  
L&N 4385 SHUNT BOX \$75.00  
L&N 4737 GUARDED WHEATSTONE BRIDGE \$225  
L&N 7553-5 K-3 UNIVERSAL POTENTIOMETER \$195  
L&N 7592 VOLT BOX \$95.00  
L&N 8691-2 MILLIVOLT POTENTIOMETER \$150.00  
L&N 8692 TEMPERATURE POTENTIOMETER \$150.  
L&N 8693-2 TEMPERATURE POTENTIOMETER \$150  
L&N 1087722 .10000 OHM VOLTAGE DIVIDER \$125  
MARCONI TWELVE CHANNEL FM7816 \$125.00  
MB 2250MA POWER AMP \$125.00  
MIL C10196/USM-430 DISPLAY \$475.00  
MIL UPM-137 IFF TEST SET \$699.00  
MIL USM-144/CM212 \$125.00  
MONROE ELECTRONICS ISOPROBE ELECTRO STATIC VOLTMEETER 144S-4 \$350.00  
NH RESEARCH 57220 2 Phase Power Source \$125.  
NH RESEARCH SF2276 2 PHASE SINE WAVE WHEEL SUPPLY \$200.00  
NORTH ATLANTIC 214C Phase Angle \$395.00  
NORTH ATLANTIC 225 Phase Angle \$275.00  
PHILCO 128A 128A-ATT-2 Attenuator ratio transformer \$125.00  
POLARAD VECTOR ANALYZER ZPV \$750.00  
PRECISION CALIBRATION KIT WR137 5.85-8.20GHZ C340A1 C344A C301 6625-00-318-5425 \$400.00  
ROCKLAND 852 DUAL HI/LO FILTER \$395.00  
SIGMA 4500 Relay Test Set \$45.00  
SINGER GERTSCH RT-9 Radio Transformer \$250.00  
SINGER STODDARD NM-17/27 EMI FIELD INTENSITY METER \$995.00  
SUNAIR GSB-900RU RECEIVER NO CONTROL \$495  
SYSTEMS RESEARCH LABS SRL 259F High Pass Low Pass filter \$175.00  
TEK 434 STORAGE OSCILLOSCOPE \$225.00  
TEK 520 Vector NTSC Scope \$195.00  
TEK 575 TRANSISTOR CURVE TRACER \$295.00  
TEK 606A MONITOR DISPLAY \$145.00  
TEK TSG3 PLUG-IN'S FOR TEK 1410 \$150.00  
TEXSCAN RS-50 SWEEP GEN 0-500 MHZ \$175.00  
TEXSCAN VS-50 SWEEP GEN 0-500 MHZ \$175.00  
TRACOR 599 Tracking Receiver 599-303 AGC Phase 599-204 Receiver 599-502 Power Supply \$495.00  
TS-419 SIGNAL GENERATOR 850-2100 MHZ \$165.  
TS-488 X BAND ECHO BOX \$250.00  
TS-1775 RELAY TEST SET \$45.00  
TS-2669 Envelope Delay Distortion Measuring Set \$175  
WATKINS JOHNSON FDM DEMODULATOR \$395.00  
WAVETEK 143 20 MHZ FUNCTION GEN. \$99.00  
WAVETEK 157 PROGRAMMABLE WAVEFORM SYNTHESIZER \$225.00  
WAVETEK 159 FUNCTION GENERATOR \$375.00  
WAVETEK 180 SWEEP FUNCTION GEN \$150.00  
WAVTEK 182 Function Gen Sine Square Triangel \$75  
WAVETEK 187 4MHZ PULSE GENERATOR \$99.00  
WAVETEK 278 Function Generator \$325.00  
WAVETEK 750 Phase Meter 10HZ- 2MHZ \$395.00  
WEST INSTRUMENTS 98 MINNEAPOLIS HONEYWELL PORTABLE POTENTIOMETER RUBICON PYROTEST, \$125.00

**MANY ITEMS NOT LISTED - TELL US YOUR NEEDS**



## 500 MHz H-P Counter

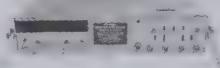


HP-5345A ELECTRONIC COUNTER, solid-state 9-digit plug-in type measures DC to 500 MHz channels A & B

without any plug-in. Function Select: Plug-In, Freq A, Period A, Time Int A to B, Ratio B/A, Start Stop. Channel controls 50 or 1 M ohm input, x1/x10 Atten, AC-DC, and Level. Requires 100/120/220/240 VAC 48-66 Hz; 5.3x 16.8x19.5, 42 lb sh. #HP-5345A, Used-reparable, \$295.00

HP-5328A ELECTRONIC COUNTER, solid-state modular design; counts upto 512 MHz on 9-digit LED display. 10 MHz reference oscillator, input for external freq-standard. Universal 100 MHz Module controls Channels A & B functions LEVEL, AC-DC select, ATTN 1-10-100, and Marker output. Sensitivity 25 MV to 40 MHz; 50 MV 40-100 MHz. Channel C module provides 5-512 MHz range, 15 MV rms sensitivity. Trigger fixed; 50 ohm impedance. With Option 011 HP-1B computer interface & manual repro. Requires 100/120/220/240 V 48-66 Hz; 3.5x 18.5x19, 28 lbs.

#HP-5328A-UR, Used-Reparable, \$235.00  
#HP-5328A-CH, Checked, except for HP-1 computer interface, \$525.00



## 18 GHz Counter



HEWLETT-PACKARD 5340A FREQUENCY COUNTER, covers 10 Hz to 18 GHz with automatic

amplitude discrimination feature allowing counter to select largest signal in 250 MHz-18 GHz spectrum. Has 8-digit display. Sensitivity -30 dBm, 10 Hz-500 MHz; -35 dBm 500 MHz-10 GHz; -25 dBm 10-18 GHz. Input impedance 50 ohms; 10 MHz crystal time base. Has Self-Check and N and BNC input connections. Requires 115/230 VAC 48-66 Hz; 3.5x 16.8x18.8, 31 lbs sh. #HP-5340A, Used-Checked, \$1195.00

## HP-5245L Counter

HP-5245L COUNTER, 7-digit predecessor of 5345A; measures upto 50 MHz without plug-ins. 100 mv sensitivity; gate 1 usec to 10 sec in decade steps.



Units at least "test" count. 5.3x16.8 x18.3, 34 lbs sh. #HP-5245L, Used-Reparable without plug-in, \$79.50

Manual repro, #MM-HP-5245L, \$23 w/set purchase.  
#HP-5253B Plug-in, 50-500MHz, \$60.00  
#HP-5257A Transfer Osc. plug-in, 0.05-18 GHz, \$175

## 3-in-1 Lab Unit



3-in-1 Lab Unit, Multimeter, Power supply, and Soldering Iron.

DIGITAL MULTIMETER - 3 1/2 backlit LCD, Automatic polarity indication, DC voltage: 200mV to 600V in 5 steps, AC voltage: 200V and 600V, DC current: 200µA to 10A in 5 steps, Resistance: 200 ohm to 2Mohm, Diode, Transistor and Continuity Test, Data-hold function and buzzer. REGULATED POWER SUPPLY - Selectable output voltages: 3 - 4.5 - 6 - 7.5 - 9 - 12Vdc, Output current: 1.5A (2A peak), LED overload indication, Output on/off switch, Very low ripple, LED power indication. SOLDERING STATION - Low-voltage iron: 24V, Ceramic 48W heating element with temperature sensor, Temperature range: OFF - 150 - 450C, Lead-free soldering possible, Supplied w/ sponge and spare bit. Great space saver! Drop shipped from Texas.  
#LAB1U, List Price, \$183.60; Our Price, \$132.94

## Value Priced Multimeter



MINI 3 1/2 DIGIT DMM - 19 RANGES. Automatic polarity indication. Diode and transistor (hFE) test. DC voltage: 200m/2000m/20/200/500V. AC voltage: 200/500V. DC current: 200µ/2000µ/20m/200m/10A.

Resistance: 200/2000/20k/200k/2000k. Basic accuracy: ±0.8% (±1.0% for 2000k range). Low-battery indication. With manual, test leads, and GP23GA 12V battery. #DVM810, New, \$5.99

## 20 Range Multimeter

3 1/2 DIGIT DMM - 20 RANGES

- 10A - TRANSISTOR TEST.

Automatic polarity function low-battery indication.

Transistor and diode test. DC

voltage: 200m/2/20/200/1000V.

AC voltage: 200/750V. DC current:

200µ/2m/20m/200m/10A.

Resistance: 200/2000/20k/200k/2000k. Basic accuracy: ±0.8%. Overload protection: 250V. Low-battery indication. 2.8" x 5.0" x 1.3" 3 lbs sh.

Includes manual, test leads, and a 9V battery.

#DVM830, New, \$10.99



## 23 Range Multimeter



3 1/2 DIGIT DMM - 23 Ranges / 20A.

Has transistor, diode and audible

continuity test. DC voltage:

200m/2/20/200 /1000V. AC voltage:

2/20/200/750V. DC current:

200µ/2m/20m/200m/20A. AC current:

2m/20m/200m/20A. Low-battery

indication. 3.3"x6.5"x1.3" 3

lbs sh. With manual, test leads, holster, and 9V battery. #DVM92, New, \$31.99

## Clamp Meter

ECONOMIC DIGITAL CLAMP METER, 3

1/2 LCD display with automatic polarity

indication. Data-hold function. AC current

measurements: max. 1000A.

Insulation test: max. 2000Mohm. Voltage

measurements: AC (max. 750V) and DC

(max. 1000V). Resistance measure-

ments: max. 20Kohm. DC voltage: 1000V.

Basic accuracy: ±0.8%. Input imped-

ance: > 9Mohm. Maximum input: 1000V. AC voltage:

750V. Basic accuracy: ±1.0%. Input imped-

ance: > 9Mohm. Maximum input: 750V. AC current:

200/1000A. Basic accuracy: ±2.0%. Overload

protection: 1200A for 60 seconds. Resistance:

200/20k (insulation test: 20M/2000M). Basic accuracy:

±1.0% (±2.0% for insulation test). Overload

protection: 500V. Overrange: yes "1". Continuity

buzzer: yes. Low-battery indication: yes "BAT".

Requires 9V battery. Accessories: manual / test

leads / battery / carrying bag. 9.1" x 1.5" x 3.5". 2

lbs sh. #DCM266L, New, \$23.95



## Digital Clamp Multimeter



DIGITAL CLAMP MULTIMETER WITH DATA-HOLD AND BACK-

LIGHT. 3 1/2 LCD display with auto-

matic polarity indication. Data-hold

and backlight function. DC voltage:

600V. AC voltage: 600V. AC current:

2/20/200A (via transformer

jaws). Resistance: 2k. Continuity

buzzer. 7.6" x 2.8" x 1.4". 3 lbs sh. Includes

manual, test leads, 1 x 12V GP23A battery, carry-

ing bag. #DCM265, New, \$59.95

## Economy Multimeter



3 1/2 DIGIT DMM - 10A / HOLD FUNCTION / BACKLIGHT, DMM with automatic polarity function and 3 1/2 digit LCD display. Diode, transistor and continuity test with buzzer. Data-hold function and backlight. DC voltage:

200m/2/20/200/1000V. AC voltage:

200/600V. Maximum AC/DC voltage

is 600V. DC current: 200µ/2m/20m/200m/10A.

Overload protection: 10A. Resistance:

200/2k/20k/200k/2M. Requires 9V 6LR61 battery

(incl.). Comes with protective holster. 2.7" x 5.4" x

1.2". #DVM850BL, New, \$15.99

## Temp / Capacitance / Freq

3 1/2 DIGIT DMM - 30 RANGES / 20A /

TEMPERATURE / CAPACITANCE /

FREQUENCY. Low-battery indica-

tion, Overload protection and auto-

matic deactivation. Transistor,

diode and audible continuity test.

DC voltage: 200m/2/20/200/1000V.

AC voltage: 2/20/200/700V. DC current:

2m/20m/200m/20A. AC current: 20m/200m/20A.

Resistance: 200/2k/20k/200k/2M/20m/200M.

Capacitance: 2000p/20n/200n/2µ/20µF. Frequency:

20kHz. Temperature: -50C to 1000C. 3.5" x 6.7" x

1.5". 3 lbs sh. With manual, test leads, holster, 9V

battery, temp. probe. #DVM890, New, \$45.00



## Analog Multimeter



DC voltage 2.5/10/50/250/500V, maximum input 500V, AC voltage 10/50/500V, maximum input 500V, DC current

500µ/10m/250mA, resistance: x1

and x10 with ohm adjusting

knob. Basic accuracy ± 5%.

Has battery-check function, and

fuse & diode protection.

Requires one AA-battery (included). Comes with manual, test leads and protective holster. 4.7" x 2.4" x 1.2", 2 lbs sh. #AVM460, \$13.40

## ME-297 Multimeter

ME-297/USM-223 FET MULTIMETER measures AC-

DC volts to 5000 V in sequential

ranges 2.5-10-50 to 5 KV, AC-DC

1000 ohm/V or DC 20K ohm/V.

Also DC current to 10 amps in full

scale ranges 0.25-2.5-10-50-100-

500 MA DC and 2.5-10 amps.

Resistance scales X1K-10K-100K-

1M-10M ohms. Includes rugged

plastic case, 4.5" dia FS=50 ua

meter, red-black test leads and

front cover. Requires 6-PXB1 1.3

V & 1"-C batteries (not supplied). 6x7.4x8.8, 7 lb.

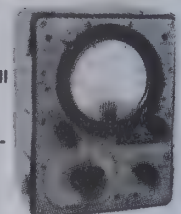
#ME-297-UR, Used-Reparable, \$40.00;

#ME-297-CH, Checked, \$65.95

Units converted so they require six double A and one

C battery, #ME-297-CON, Checked, \$110.00

Manual partial repro, #MM-ME-297, \$10.00



## Voltage Tester



Voltage Tester by Ideal. Tester checks for 110 to 550VAC; 110

to 600VDC; 25 to 60Hz frequen-

cy; Identifies AC or DC;

Checks circuit continuity;

Determines DC polarity; Finds

blown fuses, grounding and

leakage. Comes with the test

leads featuring safety shield

prod tips. 1.5x2.4x6.4, 3 lbs sh.

#61-067, Unused, \$23.00

FOR ORDERING INFORMATION SEE PAGES 19



## URM-120 Wattmeter



URM-120 Wattmeter measures incident & reflected RF from 10 to 500 watts over 25 to 1000 MHz. Uses two plug-in coupler elements CU-754 (25-250 MHz, 10-50-100-500 W) and CU-755 (200-1000 MHz, 10-50-100-500 W) that fit TS-1285\* meter. Max-insertion VSWR 1.08 (1.05

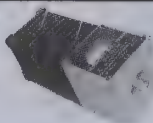
for CU-754/755, 500 W range). Power selectable on each coupler. TS-1285\* has 3.5" dia meter, 0-10-50 W scale and N conn. W/transit case & manual. 5x4.8x7.3, 20 lbs

#URM-120, (TS-1285 etc), used-reparable, \$210.00

## Dummy Load

DA-189/GRC Dummy Load, portable 50 ohm unit operates over 600 to 1850 MHz range @ 40 watts max. Output indicated on 3.5" dia meter; "C" input connection. 4x4x10, 9 lb.

#DA-189, Used, \$47.00



## HP-3586B Voltmeter

HP-3586B FREQUENCY SELECTIVE VOLTMETER, measures tone level, idle channel noise, weighted noise at voice & compare to carrier frequency over 50 Hz to 32.5 Mhz

@ 75 ohm input; voice level over 50 Hz to 100 KHz @ 600 ohms. Amplitude +20 to -130 dBm; resolution to 0.01 dBm. Option 003 measures phase jitter, noise-with-tone, signal-to-noise with tone ratio and single level impulse noise. Push-button control & entry; HP-1B programmable. NA Bell standard. Requires 100/120/220/240 VAC 48-66 Hz; 7x16.8x18.4, 62 lbs sh. #HP-3586B, Used-Reparable, \$650.00

## Freq Selective Voltmeter

SIERRA 128A FREQUENCY SELECTIVE VOLTMETER for analyzing carrier signals over 10 KHz to 15.1 MHz LSB-AM-USB; utilizes all-transistor frequency lock, Could probably be used as receiver. Separate circuits for MHz and KHz tuning each with controls COARSE, FINE, CURSOR, and input TRACKING SIGNAL BNC jack.

Voltmeter has ranges 30 uV to 30 V in 13 steps; DB ranges -90 to +30 DB. Select 75-135-600 ohm termination or 1 MHz calibrator; also Selectivity WIDENARROW, Main Tune LOCK-CONT, Audio GAIN, and phone jack. Requires 115 V 60 Hz or 28 VDC 220 ma. May have brown or beige front panel; 12x20x15.5, 52 lbs sh. #SIE-128A, Used-reparable w/ book, \$115.00

## Vector Voltmeter

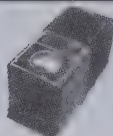


HEWLETT-PACKARD 8405A VECTOR VOLT-METER, measures both magnitude and phase over 1 to 1000 MHz in 21 overlapping bands. Also capable of determining insertion loss,

group delay of bandpass filters, complex impedance of mixers and antennas, RF distortion and in-circuit probing. Ranges: 100 uV to 1 V-rms full scale in 10 dB steps. Phase: 360 degrees on 0-center meter with end scale ranges +/- 180, 60, 18 and 6 deg. Band-width: 1 KHz. Requires 115/230 VAC50-400 Hz; 7x16.8x18.4, 36 lbs,

#HP-8405A-UR, Used Reparable w/ manual repro,\$350

## ME-82/U Wattmeter



Wattmeter for 50-600 MHz range 120 watts at 52 ohm input. Has non-linear scales 0-120 W 2.5" dia meter & C connection. 5.8x6.8 x13.5, 17 lb. #ME-82, Used, \$99.50

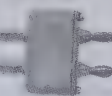
## URM-127 Audio Oscillator

AN/URM-127 SOLID-STATE AUDIO OSCILLATOR, 20 Hz to 200 KHz in four bands. Metered output 0-10 Vrms into 500 or 1000 ohms in 7 decade ranges. Design accuracy +/-2%; stability +/-0.5%. Requires 115 VAC 50-70/380-420 Hz. 7.5x13x4.5, 15 lbs sh. #URM-127-UR, Used Reparable, \$65.00 #URM-127-CH, Checked, \$115.00

AN/URM-127A newer version, but no frequency meter. #URM-127A-UR, Used reparable, \$75.00 #URM-127A-CH, Checked, \$140.00

Manual repro for URM-127, #MM-URM-127, \$18.00 Manual repro for URM-127A, #MM-URM-127A, \$18.00

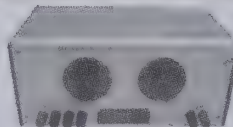
1K ohm Dummy Load for URM-127 & TS-382 oscillators. Has two banana jacks, two terminal posts, and a BNC female connector. #DA-35, Used, \$10



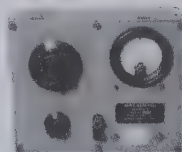
UG-514 Adapter Connector for URM-127 & TS-382. Has two banana jacks, two terminal posts, and a BNC female connector. 1 lbs. #UG-514, Used, \$9.00

## Audio Attenuator

The Shallico Attenuator Network is a 600 ohm impedance, decade type, unbalanced "T" circuit direct reading unit providing accurate performance in the low radio frequency spectrum, and usable over the range from 0 to 10 MHz. Accuracy +/- (.5% + .03 dB) of setting when checked at 1KHz. Unit has a range of 0 to 110dB in 1 dB steps and is equipped with 3/4" spacing 5 way binding posts. 7.5x12x5.3, 8 lbs sh. #12851-1, Unused, \$115.00



## Audio Output Meter

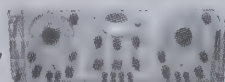


TS-585 OUTPUT METER for audio amps, filters, oscillators. Ranges 0.1-5 mw, -10+7 dbm; 1-50 mw, 0+17 dbm; 10-500 mw, +10+27 dbm; 100-5000 mw +20+37 dbm read on 3.5" dia meter. Multiplier circuit x0.1, x1, x10, x100 allows input impedances 2.5 to 20000 ohms

in 40 steps; 30-10000 Hz response. 8.5x11x5.5, 17 lbs sh. #TS-585, Used, \$79.50; Manual, partial-reproduction, #MM-TS-585, \$10.00

## Audio Test Set

MARCONI TF2005 DUAL AUDIO TEST SET, low distortion unit (designed <0.05%) consists of two 20 Hz-20 KHz oscillators, 0.1-111 dB T-attenuator and voltmeter. Output 15 dBm into 600 ohms. Attenuator balanced 75, 150, 600 ohms 1 W max; unbalanced 600 ohms. Voltmeter ranges 1.5, 5, 15, 25 V; dB ranges +10, +20, +24. Requires 115 VAC 50-60 Hz; 7x17x11, 32 lb sh. Less power cord. #TF2005, Used Reparable with output, \$235.00



## Noise Level Meter

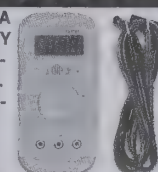


Northeast Electronics TTS37BR Noise Level-VU Meter, 1 & 10 db/step attenuators measures level +23 to -95DBM; Noise 13 to -5 DBRN. Input impeded

900 & 600 ohm circuits balanced/ unbalanced, terminating or bridged. Sensitivity -80 DBM @ 0 DB. Has large VU-meter with scales -15 to +3 VU-DB, -5 to +13DBRN. 8.8x19x7.5, 15 lbs. #TTS37BR, Used Reparable w/book, \$115.00

## Light/Sound/Temp. DVM

3 1/2-DIGIT DMM - 20 RANGES - 10A - SOUND LEVEL / LIGHT / HUMIDITY / TEMPERATURE. Automatic polarity function. Low-battery indication. Transistor, diode test, audible continuity test. Overrange protection. Sound level measurements: 35-100dB. Light measurements: up to 20000lux. Humidity measurements: 25%-95% RH. Temperature: -20C to +1300C. DC voltage: 200mV/20/600V. AC voltage: 200/600V. DC current: 200u/200m/10A. Resistance: 200/2k/200k/1M. 4.8x2.4x1.6. Includes manual, test leads, and 9V battery. Drop shipped from Texas. #DVM501, New, Regular Price, 103.95; Our Price, \$82.95



## Sound Level Meter



Analog Sound Level Meter, 7 sound level ranges: 50 to 126dB, A and C. Weighting: for sound analysis, fast/slow response: allows intermediate and high level measurements, with battery level indication, RCA output jack, Range: up to 126dB, Positions: 60, 70, 80, 90, 100, 110, 120dB, Load impedance: 1kohm min., Distortion:

< 2% at 1kHz 0.5V, Microphone: electret condenser microphone, omnidirectional, directionality increases at higher frequencies, Precision: ± 2dB at 144dB, Weighting: A or C, Response: slow or fast, Output signal: max. 1V deviation at 1kHz for the entire range, Requires 9V battery (incl.). Battery test: OK indication between 7 and 10.5V. 6.3" x 2.4" x 1.7", 2 lbs sh. #AVM2050, \$43.00

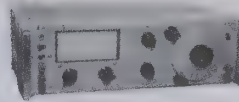
## H-P Analyzer

HP-312B ANALYZER / FREQUENCY SELECTIVE VOLTMETER, 1 KHz to 18 MHz AM, AM AFC, BEAT, USB, LSB in 18 overlapping bands indicated on 7-digit readout. Synthesizer for tuning phase-locked in 1 MHz steps.

Bandwidth 200, 1000 or 3100 Hz. Reference level -40 to +20 DBM in 10 DBM steps. Amplitude -60 to 0 DB in 10 DB steps. Impedance selectable 50, 60, 75, 124, 135, 150 or 600 ohms balanced or unbalanced. Audio output > 0.5 V rms into 10K ohm full scale deflection. Recorder output 1 V full scale deflection open circuit. Requires 115/230 VAC 50-400 Hz; 16.8x10.5 x18.8, 51 lbs. #HP-312B, Used Reparable, \$235.00



## Distortion Analyzer



HEWLETT-PACKARD 331A DISTORTION ANALYZER, measurement of total distortion 0.1%-100 % in 7 ranges

over 5 Hz to 600 KHz; harmonics to 3 MHz. 1 KHz filter attenuates frequencies below 400 Hz. Fundamental rejection >80 DB. Meter indicates 300 uV to 300 V rms in 13 ranges, 10 DB per range. Requires 115/230 V; 16.8x5 x15.3, 24 lbs sh. #HP-331A, Used Checked w/ manual, \$265.00 #HP-334A, Used Checked w/ manual, \$350.00

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## HP Carrier Test Set



HEWLETT PACKARD 3550A CARRIER TEST SET for field testing transmission line and system characteristics.

Includes solid-state 204C Oscillator, 493B Voltmeter, and 353A Patch Panel described below in transit case. Regulating batteries removed; 8.4x19.3x13.3, 36 lbs sh.

#HP-3550A, Used Reparable, \$189.50  
#MM-HP-3550A, Manual repro, \$30.00

HP-204C AUDIO OSCILLATOR, AC line or rechargeable battery operation. Unit provides frequency from 5 Hz to 1.2 MHz in six overlapping ranges. Delivers an output voltage of >2.5 V-rms (10 mW or +10 DBM) into 600 ohm. Includes Sync Output: > 100mV-rms into <100pf over entire range. 5.1x6.3x8, 9 lbs sh.

#HP-204C, Used Reparable, \$110.00  
#MM-HP-204C, Manual repro, \$14.00

HP-403B AC VOLTMETER, measures 0.001 to 300V-rms in 12 calibrated steps, -60 to +50 DB in 10 DB steps. Response 5 Hz - 2 MHz. Requires 115/230 VAC and four 6 V 225ma batteries in regulating circuit. 5.1x6.3x8, 9 lbs sh.

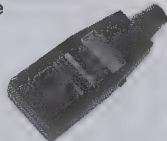
#HP-403B-LB, Used Reparable, less batteries, \$79  
#MM-HP-403B, Manual repro, \$14.00

HP-353A Telephone Patch Panel, 50Hz-560KHz. Output impedance 135, 600, and 900 ohms. Step 600 ohm attenuator. 2 pair of matching transformers primary 600 ohm, sec 135, 600, 900 ohms. 5.1x6.3x8, 9 lbs sh. #HP-353A, Used, \$35.00

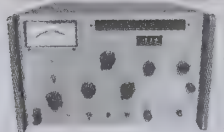
## Digital Tachometer

RPM-measurements are now safe and accurate. 5-digit LCD displays the exact rpm: 2.5 to 99,999rpm. The last value / max. and min. values are stored automatically. Resolution: 0.05%.

Comes with case. Requires 9V battery. Drop shipped from Texas. #DTC6234, New, Regular Price, \$99.00; Our Price, \$79.95



## HP Wave Analyzer

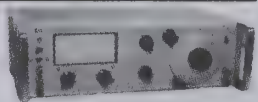


HEWLETT-PACKARD 310A WAVE ANALYZER, a frequency selective voltmeter-receiver covering 1 KHz to 1.5 MHz with bandwidths 200, 1000, and 2000 Hz; resolution 200 Hz/div. Modes AFC-Normal-BFO-USB-LSB-AM. Amplitude ranges 10 uV to 100 V full scale, 16 steps. AFC: dynamic hold-in +/-3 KHz min @ 100 KHz; tracking 100 Hz/sec. Has headphone jack and is operable as VLF receiver. Requires 115/230 V 60 Hz; 10.8x16.8x18.4, 50lbs.

#HP-310A, Used-reparable w/ manual, \$150.00

## Distortion Analyzer

HEWLETT-PACKARD 331A DISTORTION ANALYZER, measurement of total distortion 0.1%-100% in 7 ranges over 5 Hz to



600 KHz; harmonics to 3 MHz. 1 KHz filter attenuates frequencies below 400 Hz. Fundamental rejection >80 DB. Meter indicates 300 uV to 300 V rms in 13 ranges, 10 DB per range. Requires 115/230 V; 16.8x5x15.3, 24 lbs sh.

#HP-331A, Used Checked w/ manual, \$265.00  
#HP-334A, Used Checked w/ manual, \$350.00

## Wheatstone Bridge



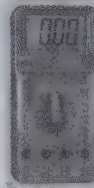
ZM-4 Wheatstone Bridge used to measure DC resistance. Resistance measurement range 1 ohm to 1.011 M ohms +/-0.15%; As a resistance substitution box it is adjustable in 1 ohm steps from 0-10110 ohms. The current

limit of the resistors is 16-500ma depending on setting. Galvanometer indicates balance in test circuit. Requires three "D" batteries. Also 22.5 to 200 VDC for more accurate readings above 1000 ohms. Can be used as a precision resistor substitution box.

5.8x7.3x8.8, 12 lbs #ZM-4-UR, Used Reparable, \$40.; #ZM-4-UR-L, Used Reparable less galvanometer, \$20  
#ZM-4-CH, Used Checked, \$59.50;  
Manual repro, #MM-ZM-4, \$14.00

## LC Bridges

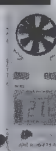
3 1/2 digits LCD with a maximum reading of 1999. Full range protection and overload indication. Worldwide safety standard, high reliability. With data hold and large LCD display. DCV:0-200m-2-20-200±0.5%-1KV±1.0%. ACV:0-2-20-200V±0.8%-700V±1.2%. DCA:0-200m±1.2%-20A±2.0%. ACA:0-200m±2.0%-20A±3.0%. Resistance:0-200-2k-20k-200k-2M±0.8%-20M±1.0%. Capacitance:0-20n-200n-2u-20uF±2.5%-200uF. Frequency: From 300Hz to 200KHz ±3%. Inductance:0-2m-20m-200m-2H-20H±2.5%. Temperature: C: -40C - 1000C; F: -1832F. Transistor and Diode test. Audible continuity: <90ohm. Requires 9V battery. Comes with test leads, bag, and battery. 7.5" x 3.5" x 1.7", 3 lbs sh. #VC9805A, List Price, \$149.95; Our Price, \$69.95



3 1/2 digits LCD display to 1999. High accuracy. Input overload protection. Low battery indication. Low power consumption. In-line push buttons allow one hand operation. Capacitance:0-2n-20n-200n-2u-20u-200u-1000uF. Capacitance accuracy 23C ±2C: <0.5uF±1.0%, >0.5uF±2.0%. C Temperature coefficient: <0.5uF±0.1%/C, >0.5uF±0.2%/C. Inductance:0-2m-20m-200m-2H-20H. Inductance accuracy 23C±2C: <0.5uH ±2.0%, >0.5uH ±5.0%. L Temperature coefficient: <0.5H±0.2%/C, >0.5H±0.5%/C. Zero Error: C<5pF, L>10uH. 7.5" x 3.5" x 1.7", 3 lbs sh. #VC6243, List Price, \$89.00; Our Price, \$69.50

## Anemometer

ANEMOMETER. Wind speed measurements in mph, km/h or m/s units. Reads up to 65MPH. Wind speed in Beaufort wind scale bar graph. Wind chill display. Temperature display in degrees Celsius or Fahrenheit. Data-hold function. Auto power OFF. LCD backlight. Comes with neckband and 1 x 3V CR2032 battery. 1.5"x7"x3.9". #DVM9500, New, \$89.95



## Transmission Test Set



Northeast Electronics TTS-44 Transmission Test Set. A useful device for test and measurement of audio VLF-RF frequencies up to 99.99 KHz. Has a four digit display switchable from Hz to KHz, and an edgewise DB meter. Also, has a small front mounted speaker with level control.

Send portion of unit generates frequencies in presets (404,1004,2804 Hz) and variable ranges (35 - 375 Hz, 375 - 4.5 KHz, 4.5 - 60 KHz) and has an output attenuator from -40 to +10 db in six ranges. Both send and receive have two independent channels with bridged and terminated binding post and phone plug connections. 120VAC, and self contained battery operation (no warranty of battery condition) 12.7 x 15 x 7.5, 33 lbs sh. #TTS-44, Used reparable, \$79.50  
#MM-TTS-44, Manual Repro for above, \$23.00

## Thermometer

In/Out Thermometer, Memory for min/max values. Wall-mounted or freestanding device.

Simultaneously display in/out. Alert/set button to enter a preset value for in/out temperature. Readout in C or F. Weatherproof sensor probe for outdoor temperature. Temperature range indoor: -10C to +50C (+14F to +122F); outdoor: -50C to +70C (-58F to +158F) Digit height: 0.5". Display size: 1.18" x 1.57". Unit size: 4.3" x 2.75" x 0.78". Requires one AAA battery (included). #TA20, New, \$9.95



## Infrared Thermometer

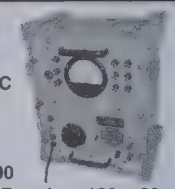


INFRARED THERMOMETER. One-handed operation. Laser technology. Range 0 to 788F. Resolution 1F / 1C. Spectral response 6-14µm. Response time 500ms. Accuracy: -20C to +180C ± 3C; +101C to +420C ± 3C. Operating temperature 0 to +50C. Power consumption 40mA max. Requires a 9V-battery (not included) 1.7" x 1.6" x 6.7". 2 lbs sh. Drop shipped from Texas.

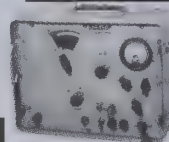
#DVM8869, New,  
List Price, \$215.00; Our Price, \$151.95

## TS-656 Test Meter

TS-656 Electrical Meter Test Set supplies accurately metered AC and DC voltages and DC current to test meter movements. AC, DC voltages 0 to 2.5, 5, 10, 25, 50, 100, 250, 500. DC current: 0 to 100 ua, 250 ua, 500 ua, 1 ma, 2.5 ma, 5 ma, 10 ma 25 ma 50 ma, 100 ma, 250 ma, 500 ma and 1 amp. Requires 120 v 60 hz. 55 lbs sh. 17.75 x 14.25 x 11.75. With operators info. #TS-656, Used Reparable, \$169.50



## URM-26B Generator

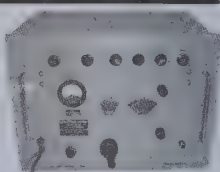


SG-117/URM-26B SIGNAL GENERATOR, 4 to 405 MHz AM-CW - Pulse in six bands. Output 0.1 to 100K uV into 50 ohms. Modulation 400 or 1K Hz 0-50%. External pulse-mod requires positive 40 V-min 50-500 pps; duration 2-40 usec and 70 ohm input impedance. Requires 115 V 50-1000 Hz. Outer case may have small dents. Less front cover. 11.3x14x10.5, 36 lbs sh. #URM-26B, Used Checked, \$185.00  
Manual repro, #MM-URM-26B, \$18.00

Accessories sold only with purchase of URM-26B: 2:1 attenuator, 50 ohms, #CN-315, \$9.50 10:1 50 ohm, #CN-316 \$11.50 Impedance matcher, #CU-439, \$11.50 BNC cords, 4 foot, #BNC-4ft, \$4.50; BNC cords, 6 inch, #BNC-6IN, \$2.50

## SG1174 Signal Generator

SG-1174/U (AUL 6201B) Signal Generator 3.8 - 7.6 GHz. Internal modulation of CW, pulse, square wave, FM or accepts external modulation. Control complement includes vernier tuning, attenuator, sync multiplier, pulse rate (40-400pps), pulse width (.5-10us), sync delay (3-300us), and FM modulation level. Solid-state design except for 5037 klystron. 50 ohm output, plus sync and sync delay outs; external modulation inputs. 5.7x19x13.7, 54 lbs sh. No manual available. #SG-1174, Used Reparable, \$125.00

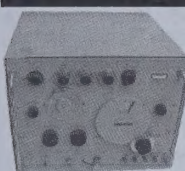


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24 HOUR FAX 419-227-1313



## UHF Signal Generators

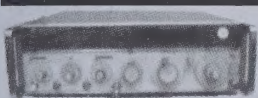


HEWLETT-PACKARD 620B SIGNAL GENERATOR, 7 to 11 GHz in single band FM, pulse or squarewave modulation. Calibrated output 0.1 uv to 0.224 V into 50 ohms. Also second 0.3 MW uncalibrated output useable for phase locking.

Pulse rate 40 to 4000 pps; width 0.5 to 10 usec. Uses 5721 or = klystron. Requires 115/230 VAC 50-400 Hz. 13.9x17.5 x17.4; 70 lb. #HP-620B, Used Repairable, \$175 Manual repro for above, #MM-HP-620B, \$20.00

HP-618C GENERATOR, similar to 620B except 3.8 to 7.6 GHz; #HP-618C, Used Repairable, \$150.00 Manual repro for above, #MM-HP-618C, \$17.00

## HP-8640B Signal Generator

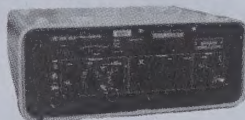


HEWLETT-PACKARD 8640B RF GENERATOR 500 KHz - 512 MHz AM-FM-Pulse in 11 bands read on 7-digit display.

Output +19 to -145 dbm (2 V to 0.013 uv); phase-lock FM. Requires 100/120/220/240 VAC 48-440 Hz; 5.5x16.8 x18.8, 53 lbs sh. Used Checked w/manual copy, #HP-8640B-13, \$1150.00

MILITARY VERSION of popular solid-state HEWLETT-PACKARD 8640B with opt 323 (AN/USM-323). Covers 500 KHz to 512 MHz AM-FM-Pulse in ten octave ranges using 6-digit LED readout; to 1024 MHz using external freq doubler (not available). Output: 0.01 uv to 2 V (-144 to +19 DBM); modulation 400, 1000, 5000 Hz. Pulse: 0.05-5 KHz.

Resolution 10 Hz (0.5-4 MHz), 100 Hz (4-64 MHz), 1 KHz (64-512 MHz). USM-323 does NOT have these features: seventh 1/2 digit, X100 Expand, ext-count input, phase-lock. Mounted in transit case. Requires 103-127/207-242 VAC 48-440 Hz; 7.8x19.5 x22.4, 70 lbs. #USM-323, Used Checked w/book copy, \$895.



## 480 MHz Signal Generator



HEWLETT-PACKARD 608E SIGNAL GENERATOR, best of 608-series covers 10-480 Mhz AM-CW-pulse; 1 & 5 Mhz calibration check points over range make +/-0.05% accuracy possible. Modulation 400 or 1000 Hz internal; external 20 Hz-20 KHz, 0 to 90%. Large 3.5" dia meters for Percent Modulation & Output Volts-DBM. Requires 115/230V 50-400 Hz; 16.4x13.3x21, 72 lbs. #HP-608E-UR, Used Repairable, \$260.00

#HP-608E-CH, Checked, \$310.00

Manual repro for above, #MM-HP-608E, \$18.00

FIBERGLASS TRANSIT CASE for HP-608 generators; 30 lbs sh. #FIB-USM-44B, used, \$40.00

## H-P Microwave

HEWLETT-PACKARD, Frequency Meters, 5 lbs. Used:

G532A, 3.85-5.85GHz, \$195.00

J532A, 5.3-8.2 GHz, \$195.00

P532A, 12.4-18 GHz, \$195.00

R532A, 26.5-40GHz, \$195.00

X532B, 8.2-12.4GHz, \$195.00

536A, 0.94 - 4.2GHz, \$50.00

WDA-940 by FEL, 0.96 - 4.2GHz, Unused, \$50.00

Precision Attenuators:

J382A, 0-50dB, \$195.00; X382A, 0-50dB, \$195.00;

DIRECTIONAL COUPLERS: 2 lbs sh.

G752C, \$125, H752D, \$125,

J752D, \$125, P752A, \$99,

X752C, \$99, P8747A, \$150,

Omega 3315E, \$95.00,

UG1054/H281A, \$95.00

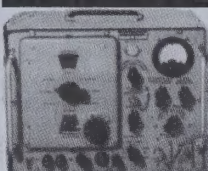
X910B Termination, \$20.00

Waveline 60563, \$95.00,

Waveline 60563, \$95.00,

Waveline 60563, \$95.00,

## 50 MHz Signal Generator



AN/URM-25 SIGNAL GENERATOR with accessories; covers 10 KHz to 50 MHz in 9 bands. Output to 100K uv into 50 ohms. Modulation 0-50% 400 or 1000 Hz; internal 1 MHz calibrator.

Includes MX-1487 impedance adapter, SM-35 antenna simulator, attenuators CN-223-224, test cable & manual repro.

Requires 115 VAC 60 Hz; 11.3x14x10.8, 58 lbs sh. #URM-25-UR, Used Repairable, \$130.00 #URM-25-CH, Checked, \$200.00

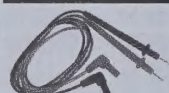
Dummy Antenna for URM-191 & other signal generators such as the URM-25. 50 ohm impedance. Has a female BNC connection on each end. #DA-650, Used, \$7.00

Fixed 5:1 Attenuator for URM-191 & other signal generators such as the URM-25. Has a female BNC connection on each end. #CN-1418, Used, \$8.00

Adapter Connector for URM-191 & other signal generators such as the URM-25. Has a female BNC connection on one end and a 1/4" phone jack on the other end. #35-28102-14, \$7.50



## Test Leads



TEST LEADS. 2 test leads with protection caps. Ratings: 1000V / 15A. Length: 30" / 37". #TLM1, New, \$6.50

SET OF TEST LEADS - 2 BANANA PLUGS. 2 test leads (with banana plug) 0.16". Length: 39.4". #TLM2, New, \$1.49



SET OF TEST LEADS - BANANA PLUG / BOOTED CROCODILE PLUG. 3 test leads (banana plug 0.16" / boot-crocodile plug). Length: 35.4". #TLM3, New, \$1.49

SET OF TEST LEADS - 2 HOOKED BANANA PLUGS. 2 test leads (2 hook banana plugs) 0.16". Length: 35.4". #TLM4, New, \$1.99



Test Leads with alligator clips. Each test lead is 55" long. Used in conjunction with PSM-6 and other military meters. #MX-1909, Unused, \$4.

Red & black panel jacks f/ above. #J-19, used, \$2 per set

## Alligator Clips

ALLIGATOR CLIP 10A. Solder conn. Length 2.2". Boot color black, #CM16B, 4 for \$1.19; 8 for \$1.99 Boot color red, #CM16R, 4 for \$1.19; 8 for \$1.99

ALLIGATOR CLIP. Solder conn. Length 1.7". Boot color black, #CM6B, 12 for \$1.99; 24 for \$3.39 Boot color red, #CM6R, 12 for \$1.99; 24 for \$3.39

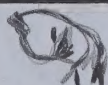
As above but 1.1".

Boot color black, #CM5B, 12 for \$1.99; 24 for \$3.39

Boot color red, #CM5R, 12 for \$1.99; 24 for \$3.39

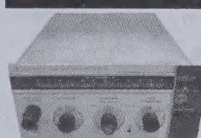
20 amp rated Industrial Alligator clip with spiny contact by Mueller. No insulation. Unused, #AC-1868, \$1.25 each; 3 for \$3.00

## Jumper Test Leads



Set with 10 wires 5 colors with boot-crocodile clips. Cable length: 20". Booted alligator clips: 1". #CM12, New, \$1.79

## HP Analyzer Plug-In

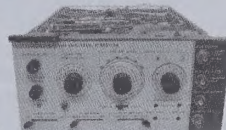


HEWLETT-PACKARD 8553B SPECTRUM ANALYZER PLUG-IN for HP-141T main-frame; covers 1 KHz to 110 Mhz in bands 0-11 and 0-110 Mhz. IF bandwidths: 10 KHz to 300 KHz, 1-3

sequence. Scan widths on 10-division CRT: 20 Hz/div to 10 Mhz/div in 18 calibrated steps, 1-2-5 sequence. 4x8.9x13.5, 17 lbs.

#HP-8553B-UR, Used Repairable, \$295.00 Manual partial repro, #MM-HP-8553B, \$20.00

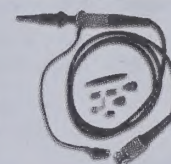
HP-8552B IF Plug-in for 141T. Features video filtering, recorder outputs and an internal calibration signal to make the spectrum analyzer easier to use. Provides bandwidth/gain selection and detection. Internal calibration standard is -30dBm, 30MHz signal. 16.8x16.4x8.8, 14 lbs sh. #HP-8552B, Used operates but may need adjustment, \$400.00



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HEWLETT-PACKARD 8445B AUTOMATIC PRESELECTOR. This YIG tuned filter unit is designed for use with the HP-141T Analyzer with the HP-8555A Plug-in. Suppresses harmonic mixing image and multiple responses from 1.8 to 18 GHz. Clean band sweeps of 2, 4, 6, or 8 GHz are possible depending on the band selected. N connections. Less interconnect cable. Requires 100/120/200/240 V 48-440 Hz. 3.5x16.8 x18.4, 25 lbs sh. #HP-8445B, Used Repairable, \$350.00

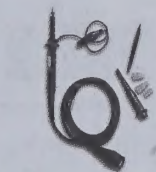
## Scope Probes



OSCILLOSCOPE PROBE 150MHz. Complete probe set for measurements up to 150MHz. Attenuation: 1:1 or 1:10. Position x1 - bandwidth: DC to 60MHz, input resistance: 1Mohm (input resistance scope) input capacitance: 90pF + cap. scope. Position

x10 - bandwidth: DC to 150MHz, input resistance: 10Mohm (if scope input = 1Mohm), input capacitance: 15pF approx. Cable length 3.9ft. #PROBE150, New, \$39.95

OSCILLOSCOPE PROBE 100MHz. Complete probe set for measurements up to 100MHz. Attenuation: 1:1 or 1:10. Position x1 - bandwidth: DC to 60MHz, input resistance: 1Mohm (input resistance scope) input capacitance: 90pF + cap. scope. Position x10 - bandwidth: DC to 100MHz, input resistance: 10Mohm (if scope input = 1Mohm), input capacitance: 16pF approx. Cable length 4.6ft. #PROBE100, New, \$32.95



INSULATED SCOPE PROBE 60MHz. Complete probe set. Insulated for hand-held equipment. Attenuation: 1:1 or 1:10. Position x1 - bandwidth: DC to 15MHz, input resistance: 1Mohm (input resistance scope), input capacitance: 46pF + cap. scope. Position x10 - bandwidth: DC to 60MHz, input resistance: 10Mohm (if scope input = 1Mohm), input capacitance: 18pF approx. Cable length is 4.6ft. With insulated BNC connector. #PROBE60S, New, \$22.95

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## Tektronix Plug-ins

Each of the plug-ins listed below are used repairable.

Part Number: #TEK-(specify model)

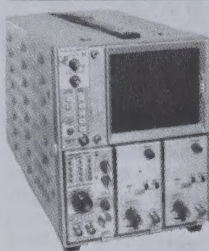
- 1A1 High Gain Wide Band, \$45.00
- 2B67 Time Base, \$45.00
- 3A1 Dual Trace Amplifier, \$45.00
- 3A3 Vertical Dual Trace Differential Unit, \$75.00
- 3A6 Dual Trace Amplifier, \$45.00
- 3A72 Dual Trace Amplifier, \$40.00
- 3B4 Time Base Single Sweep Type, \$45.00
- 3S76 Sampling Dual Trace, \$40.00
- 5A14N Four Channel, \$100.00
- 5A15N Single Trace Amplifier DC-2MHz, \$35.00
- 5A18N Dual Trace Amplifier, \$79.50
- 5A21N Differential Amplifier, \$50.00
- 5A24N Single Trace Amplifier DC-2MHz, \$30.00
- 5A38 Dual Trace, \$45.00
- 5A48 Dual Trace, \$60.00
- 5B10N Time Base / Amplifier, \$50.00
- 5B12N Dual Time Base, \$85.00
- 5B25N Digitizer / Time Base / Amplifier, \$99.00
- 5B40 Time Base, \$60.00
- 5B42 Delaying Time Base, \$85.00
- 5T3 Time Base, \$65.00
- 7A12 Dual Trace Amplifier, \$60.00
- 7A13 Differential Comparator, \$125.00
- 7A15A Amplifier, \$60.00
- 7A16A Amplifier, \$99.00
- 7A18 Dual Trace Amplifier, \$125.00
- 7A19 Amplifier, \$125.00
- 7A22 Differential Amplifier, \$150.00
- 7A24 Dual Trace Amplifier, \$99.00
- 7A26 Dual Trace Amplifier, \$99.00
- 7B10 Time Base, \$199.00
- 7B50 Time Base, \$155.00
- 7B53A Dual Time Base, \$179.00
- 7B71 Delaying Time Base, \$175.00
- 7B80 Time Base, \$125.00
- 7B87 Time Base, \$175.00
- 7B92A Dual Time Base, \$199.00
- 7D15 225MHz Counter / Timer, \$199.00
- 10A2 Dual Trace Amp, \$50.00
- 11B1 Time Base, \$40.00
- 53/54K Fast Rise .05-20V/cm, \$20.00
- 72 Dual Trace Amplifier, \$45.00
- AM-6565/U Amplifier (7A15AN11), \$45.00
- B Wideband 50mv-20V/cm, \$25.00
- CA Dual-Trace DC-24 MHz, \$40.00
- D High Gain DC Differential, \$25.00
- E Low Level AC Differential, \$25.00
- H Wideband 50mv-20V/cm, \$25.00
- K Low Level AC Differential, \$25.00
- L Wideband High Gain, \$30.00
- O Operational Amplifier, \$50.00
- P Rise Time Test Unit, \$25.00
- Q Transducer-Strain Gauge, \$85.00
- Z Differential Comparator, \$85.00

## Wire Clips

144mm LONG WIRE CLIP FOR CABLE CONNECTION. Suitable for cable and 4mm banana plug. Length is 5.7". Black color, #CM23B, \$1.82 Red color, #CM23R, \$1.82

40mm WIRE CLIP. Solder connection. Length is 1.6". Black color, #CM22B, \$0.99; 3 for \$2.39 Red color, #CM22R, \$0.99; 3 for \$2.39

## TEK 7603N11S



AN/USM-281C (Tektronix 7603-N11S) OSCILLOSCOPE, modern, versatile 7000-Series scope with large 8 x 10 cm display and at least 65 Mhz response. Includes two AM-6565 (7A15AN11) single-trace and one TD-1085 (7B53AN11) dual time base plug-ins plus the 100 Mhz mainframe accepts standard Tek 7000-Series plug-ins. Vertical deflection 5 mV - 10 V/div in 11 calibrated steps, 1-2-5 sequence; vernier to 25 V/div. Sweeps: Normal, Intensified Delay, Delayed and Mixed. Rate 0.05 uS - 5 S/div in 25 steps, 1-2-5 sequence; 5 NS rate using x10 magnifier. Delayed rate 0.05 uS to 0.5 S/div in 22 steps. Requires 100-120/200-240 VAC 48-440 Hz. With book; 11.5x9.7x25.2, 52 lbs. #USM-281C-UR, Used-Repairable, \$370.00 #USM-281C-CH, Checked, \$460.00 Manual repro f/ USM-281C only, #MM-USM-281C, \$35

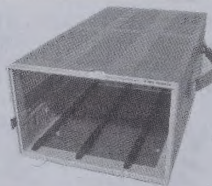
+++++

ADAPTERS for USM-281C/TEK7603:

ADAPTER BNC (f) - UHF (m) #103-0015, \$3.00  
ADAPTER BNC (m) -UHF (f) #103-0032, \$3.00  
ADAPTER BNC (m) to post, #103-0033, \$3.00  
T-CONNECTOR, BNC (f-m-f) #103-0030, \$3.50  
CABLE, 8 ft BNC, 50 ohms, #012-0118, \$4.50

## TEK 500 Modules / Plug-ins

The TEK TM503 Power Module benchtop mainframe is a three wide power module compatible with all TM500 Plug-Ins. It provides unregulated DC and AC supplies and non-dedicated power transistors for plug-in usage. 17x8.35x9, 14 lbs sh. #TM503, \$125.00



Four Wide Power Module, #TM-504, \$145.00  
Five Wide Portable w/ covers, #TM-515, \$169.00

Part Number for plug-ins below:  
#TEK-(specify model)

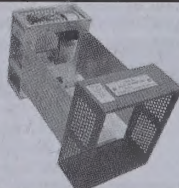
AM502 Differential Amplifier, \$195.00  
AM503 Current Probe Amp (no probe included), \$179  
DC501 Counter 110 MHz, \$199.00  
DC502 (opt. 1) Counter, \$199.00  
DC503 Universal Counter, \$129.00  
DC504 Counter / Timer, \$129.00  
DM501 Digital Multimeter, \$99.00  
DM502 Digital Multimeter, \$149.00  
FG501 Function Generator, \$129.00  
PG501 Pulse Generator, \$129.00  
PG505 Pulse Generator, \$225.00  
PS501 Power Supply, \$199.00  
SG503 Leveled Sine Wave Generator, \$499.00  
TG501 Time Mark Generator, \$499.00

\*\*\*\*TEK 5000 Plug-in\*\*\*\*

FG5010 Programmable Function Generator, \$999

## Tek Plug-in Adapter

Tektronix type 81 DC-30MHz Vertical Plug-in Adapter. Allows the use of all 1-series and letter-series plug-ins with 580-series oscilloscopes. Tube type version. 12.2x5.9x7.1, 6 lbs sh. #TEK-81, Used, \$29.95



## Personal Scope Special

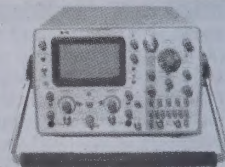


PERSONAL SCOPE 10MS/s, Complete portable oscilloscope the size and the cost of a good multimeter. Ideal for hobby, service, automotive and development purposes. Suitable for measurements on audio equipment, line voltage applications, digital signals, all kind of sensors, signal analysis in automotive applications, car stereo, etc Its full auto setup function, makes

measuring waveforms very easy. 10MHz sampling rate. 0.1mV sensitivity. Up to 2MHz analog bandwidth. 5mV to 20V/div in 12 steps. 200ns to 1hour/div time base in 32 steps. Full auto set up. Trigger modes: run, normal, once, roll, slope +/- X and Y position signal shift. DVM readout with x10 option. Audio power calculation (rms and peak). dBm, dBV, DC, rms ... measurements, signal markers for Volt and Time. Frequency readout (through markers). Recorder function (roll mode). Signal storage (2 memories). LCD: 128x64 pixels / high-contrast. Requires five 1.5V AA battery or Nicd / NiMH (not incl.). Includes battery charging circuit. Drop shipped from Texas. #HPS10, New, List Price, \$229.90; Our Price, \$159.99

## 275 MHz Scope

HEWLETT-PACKARD 1720A PORTABLE SCOPE, DC to 275 MHz response with dual channels, large 6x10 CM display, and selectable input impedance 50 ohms or 1 meg-ohm. Modes Channel A or B, A+B, A & B



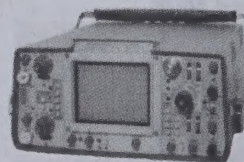
alternating, A & B chop. Deflection: 5 mv-5 V/div in 10 calibrated steps, 1-2-5 sequence plus vernier to 12.5 V. Sweep: 10 ns-0.2s/ div in 23 steps, vernier to 0.5 sec and X10 magnifier. Trigger normal, auto or single. Delay sweep: 10 ns-0.1 s/div in 22 steps, vernier to 0.25 sec; delay time varies 0.02 us-2 sec. Calibrator 1 KHz squarewave, 1 V p-p. Requires 115/230 VAC 50-440 Hz, 38 lbs.

#HP-1720A-UR, Used Repairable, \$425.00  
#HP-1720A-CH, Checked, \$550.00

Similar except DC-150MHz, repairable, #HP-1710A, \$360  
Similar except DC-100MHz, repairable, #HP-1741A, \$310

Manual repro for HP-1710A, #MM-HP-1710A, \$35  
Manual repro for HP-1720A, #MM-HP-1720A, \$35

## TEK 100 MHz Scope



TEKTRONIX 465M (AN/USM-425) OSCILLOSCOPE, militarized portable dual-trace unit has response DC to 100 MHz and 8x10 CM display. Deflection 5 mv to 5 V/div in 10 calibrated

steps, 1-2-5 sequence plus vernier. Vertical modes: TRIG View, 20 MHz BW, CH 1, ALT, Add, Chop, CH 2 or X-Y. Sweep 0.05 usec to 0.5 sec/div in 22 steps plus vernier; delay 0.05 usec to 50 msec/ div. Inputs: 1 Megohm paralleled by 20 pf. Also X10 magnifier, adjustable handle, and manual copy. Front cover is not available. Requires 100-132/ 200-264 V 48-440 Hz; 19.2x12.8x7, 32 lbs sh. #TEK-465M-UR, Used physically OK but power supply troubles, \$260.00 #TEK-465M-CH, Checked, \$425.00 Manual for above, #MM-USM-425V, \$30.00

EMAIL US YOUR INQUIRIES AT FAIRRADIO@FAIRRADIO.COM



## DC Voltmeters

Analog Panel Meter, 0-5 VDC, Scale reads 0-75 watts. 4.6" x 4.1", #251-4, New, \$14.00

FS=5 VDC, scale 0-1.5 A & 0-300 MA; 2.5" rd. #VDC-5, Used, \$6.00

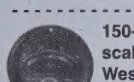
ES=5VDC, 5-0.5/10-0-10maDC, 3.5" rd, #S00-5-0-5V, Used, \$15.00



**DATA TECH 0-20 VDC**  
Digital Panel Meter, uses Sperry 7-segment 0.5"H readouts. 10 meg ohm impd.; auto-polarity, OVP. Requires 115 V 60 Hz. Units have "weak" displays and/or "bad" segments. 1.9"Hx4"Wx5.5"D, 3 lbs. sh. #5313-220, "AS-IS", \$12.00

**POLARAD Mfg.** FS=100 V DC, 0-100-500 scale, 4"W x3.8"H. #M2/TV13, \$10.00

FS=150 VDC, 0-1500-5000 sc. 4"Wx3.8"H. #M4/TV-13, \$10.00



150-300 VDC expanded scale, 4 1/2" rd, black face, Weston 760, 500 ohm/Volt, #VDC-300, Unused, \$12.00

High Voltage DC 3 1/2" round panel meters removed from equipment. Each panel meter listed below comes with the associated large multiplier resistor creating full scale indication as shown below. 0-1KV, #S00-1KV, \$20

Analog DC Volt Panel Meters, New, \$8.30 ea  
15V, 2.4"x1.9", #AVM6015  
15V, 2.8"x2.4", #AVM7015  
30V, 2.4"x1.9", #AVM6030  
30V, 2.8"x2.4", #AVM7030

## DC Amps

DC AMMETER -15 MV - 0 - +50 MV. 4.5 inch dia. mounts in 3 5/8 inch hole. Scales -150 to 500, -30 to 100, -15 to 50, -3 to 10.3 lbs sh. #400R150B, Unused, \$6.95

EDGEWISE METER 0-8 A DC; 1.9"W x 3/4"H; #D2588, \$8.00

ES=20 ADC, 2.5" round diameter. 20-0-20 scale. White face. Shunt not required. #ADC-20-ES, Unused, \$10.00

0-150ADC & 0-75VDC Scale; FS=150MV; 2.7" x 2.3", #1921-M1031, Unused, \$7.50

FULL SCALE = 50 MV:

0-15 ADC 3.5" rd black, #ADC-15, \$8.

0-30 ADC 2.5" rd, used, #ADC-30, \$7.95

0-1500 DC Ammeter. 3.5 inch dia. mounts in 2 3/4 inch hole. White face. FS=50mv. #NX-35, Unused, \$15.00

Analog DC Current Panel Meters, New, \$8.30 ea.

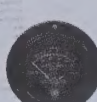
3A, 2.4" x 1.9", #AIM603000  
10A, 2.4" x 1.9", #AIM6010A  
5A, 2.4" x 1.9", #AIM605000  
5A, 2.8" x 2.4", #AIM705000  
30A, 2.4" x 1.9", #AIM6030A

## DC Micro Amps

FS=50 UA DC, scale -30 -+150 w/ "O" center; 2.5" rd sealed. #TRC30150, \$5

Analog Panel Meter, 0-50 UADC, 2.4" x 1.9", #AIM60005, New, \$8.30

ES=100 UADC, 3.5" rd, Scale -10 to +10 %, Black face, #UA-100-ES-3.5, Used, \$7.00



FS=100 UA DC, 2.5" round diameter. Scales for 0 to 100 and -8 to +6dbm. Black face. #265-347, Unused, \$10.00

150-0-150 UA DC, 3.5" round Simpson. #UA-150-ES, Unused, \$8.95

FS=200 UA DC, 3.5" Rd diameter. Scales for 0 to 20 and 0 to 2.0 RF Watts. White face. #300R-426C, Unused, \$14.00

0-200 UADC 2.5" round. White face. Used, #UA-200, \$11.00

## DC Milliamps

FS=1maDC, Marked Amperes, Volts, and AC. 0-5/120/30 scale. 3.6"W x 3.3"H, Mounts in 2 1/4" hole. #2168, Unused, \$17.50



Analog Panel Meter, 0-1 MADC, 2.4" x 1.9", #AIM601, New, \$8.30

ES=1maDC, 100-0-100 scale, 2.5" RD, A&M Instruments. #265-097, Unused, \$14.00

1.5MADC Movement Audio Output Meter for receiver. 0-2VAC scale non-linear. Works with SP-600. 2 1/4" rd white face. #MA-1.5, Used, \$23.00

FS=5 MA DC, 0-150 VDC scale 3.5" sq. #MA-5, Used, \$7.95

100-0-100 MA DC, 3 1/2" rd Weston 301, #MA-100-ES, Used, \$6.95

Analog DC Current Panel Meters, New, \$8.30 ea.

50mA, 2.4"x1.9", #AIM6050  
100mA, 2.4"x1.9", #AIM60100  
500mA, 2.4"x1.9", #AIM60500

## Shunts

FS=50mv:  
30 amps, 1.3x2x1.7, #SH-30, Used, \$7

High Current Weston DC Generator Shunts. 50mv. Used, minor corrosion. 400 amp 4 lbs. #SH-400, \$30.00  
500 amp 3 lbs. #SH-500, \$30.00  
800 amp 4 lbs. #SH-800, \$30.00  
1000 amp 9 lbs. #SH-1000, \$40.00

Instrument Shunt, 1 amp at 50MV; 2 amps at 100MV. #0042261, \$4.95

## AC Voltmeters

VTVM Meter 1-10 VAC scale expanded with 3.5 V centered; also 0-20 DB. 4.5" rd. #0899, Unused, \$7.95



Analog AC Voltage Panel Meters, New, \$8.30 ea.  
150V, 2.4"x1.9", #AVM60150  
300V, 2.4"x1.9", #AVM60300

## AC Amps

FS = 5 amps AC; transformer required for indicated scale (not available): 0-150 A, 2.5" dia. #ACA-150, \$9.50  
0-100-200 AC AMPS FS=5 A GE-YOKO 2.5" sq. #ACA-200, \$10.50

## Various Meters

----- DB METER -----  
-4-0-+6 DB 1 MW, FS= 1 MA; 2.5" rd sealed, #DBM-4-6, Used, \$4.50

-- METER ASSORTMENT --  
Seven U.S. mfg meters 2 1/2" x 3 1/2" - up; mixed odd scales, FS-100 ua and up - no choice; 3 lbs sh. #MTR-ASST, \$12.00

- I-70 B TUNING METERS -  
"Tune for Max" meter used in many WW-2 radio remote control boxes such as BC-311, BC-434 & C-4/ARN-7; 2.1x2.1x1.6, 1 lbs. #I-70B-TM, Used, \$12.00

- ART-13 PLATE METERS -  
Original PA Plate Panel Meter from the ART-13 transmitter. Full Scale equals 1maDC. 2 1/2" round. Black face. Used condition, #PMTR-ART-13, \$23

- TV-2 PANEL METERS -  
TV-2 panel meters  
Filament, #F-TV-2, Unused, \$50.00  
Grid Bias, #GB-TV-2, Used, \$50.00  
Screen, #S-TV-2, Used, \$50.00

## KW Hour Meters

KiloWattHour meters 240 volt 60 Hz single phase 4 dial. Monitor power to your out buildings or campground. Removed from use, good condition. An interesting item to build into a lamp base. You could probably modify it to make in run on the lamp current. 8 lbs sh. Used.

Duncan Form 2S, Rr 138 B/9, 240 v TA 30, Kh 7.2 3W. #200CL-MS, \$33.00  
Duncan MQ-S Form 2S Rr 83 1/3 240 v 60 hz 3W TA 30 12 kh. #200CL-MQ-S, \$32

## Galvanometer



Used in test bridges to indicate slight variations in current; 1 mm increments:

LEEDS & NORTROP  
10-0-10 scale, sens 0.1 ua/mm. CDRX 10K ohms; 500 system res. Period 4 sec; w/ Balance "lock". Behind panel: 4"D x 1" dia; front 3"H. #18876, New, \$30.00

## Frequency Meter

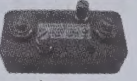


5 Reed Frequency Meter 380 - 420 Cycles. 100-130 Volts. 1 3/4" diameter. #15-FH-400, Used, \$12

60 / 400 HZ REED FREQUENCY METER two reeds—one 60 Hz, one 400 Hz—vibrate when freq approached. Use a 20K ohm resistor for 115V operation. 2" dia; fit 1.5" hole. #FM-TS382, used, \$12.95

## RF Thermocouple

RF Thermocouple ARC-7499 as used in RE-2/BC442 ARC-5 antenna relay. Bridge type 19.5 +/- 1.5 mv 750 ma. Use for replacement on experiments. #ARC-7499, Unused, \$6



## Pressure Gauges



0 to 15 PSI Pressure Gauge by USG. 2.1" round with 1/8" fitting and brass coupling. #PS-15, Used, \$8.95

0-60 PSIG & 0-4 KG/CM; 2.1" rd w/ 1/2" dia fitting. #PG-60PSI, NEW, \$6.50

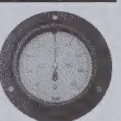


PRESSURE REGULATOR 0 - 500 PSI. Seems to be a quality unit, but no mfg. or country of origin on the unit. 2.5x1.8 x3.3, 2 lb sh. #PR-500, \$6.00

0-6000 PSI 4" dia 270 degree scale; 7/16"di fitting. O/a 6"dia. #M6000-PSI, Unused, \$16.00

## Water Gauge

3 1/2" Round Gauge reads negative 80 thru positive 80 "Centimeters of Water" in increments of 2. Has 1/8" threaded hole on back. Made by Marshall Town. #92361, Unused, \$8.50



## Temperature Gauge

40 - 240 degree Temperature Gauge. 2 1/4" diameter. White face. Requires external sensor. #TEMP-240, \$6.50



## Running Time Ind.

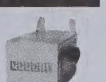
3 1/2" Round Running Time Meter by Cramer Division Type 635EAA. Requires 115VAC 60Hz at 2.7 watts. Reads upto 999,999 hours.

Reads in one hour increments only. Does not read in tenths. 3/10 RPH. 3" depth. Comes with mounting hardware. #RTM-115, Unused, \$23.00

Same as above except 440VAC 60Hz and reads upto 99,999 hours, #RTM-440, Unused, \$18.00

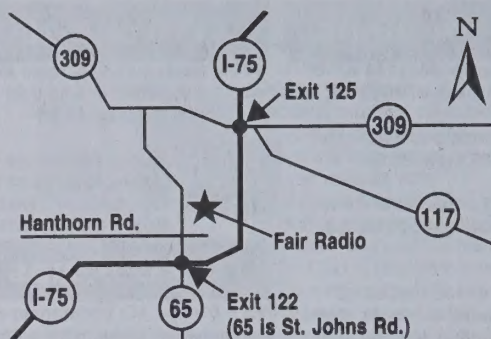
## 12VDC Counter

6-Digit Mechanical Counter 12 VDC nonresettable; black numerals on white. Rear mount flange; o/a 1.3"Hx1.5"Wx2.5"D, 1 lb. #E07B10DC12, New \$3.95



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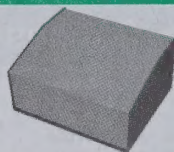




Fair Radio Sales Co., Inc.  
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Lima, Ohio 45804

\*\*\*\*\*AUTO\*\*\*3-DIGIT 060  
\*\*\*\*\*5511  
PHILIP ACCARDI  
7 DOMINIQUE LN  
SIMSBURY CT 06070-1623

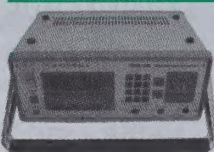
## Sloped Enclosures



15 Degree Slope Enclosure. The base is 18 ga. steel for extra strength. Easy to machine - aluminum top panels are 0.064" thick aluminum. Back is also aluminum. Sides pre-assembled

with a two tone grey powder paint finish (base is dark satin gray, slope top is smooth light grey). Comes with four self adhesive rubber feet and required hardware. Hammond Mfg. New, 4.5" W x 6" D x 2.1" Rear Ht x 1.1" Front Ht, 3 lbs sh. #515-0910, \$20.24; 5 pcs \$16.69 each 7.4" W x 6" D x 3.8" Rear Ht x 2.8" Front Ht, 5 lbs sh. #515-0940, \$23.87; 4 pcs \$19.83 each 11.7" W x 7.7" D x 2.1" Rear Ht x 1.2" Front Ht, 5 lbs sh. #515-0950, \$29.16; 3 pcs \$24.50 each

## Enclosure



Aluminum Enclosure by Motorola with 13.5" W x 5.1" H front panel. Ventilation holes on bottom. Adjustable handle. Less back cover. Overall 10.3" D x 16.3" W x 6" H,

10 lbs sh. Excellent Condition, #TDMA-1000, \$44.50

## Saber / Astro Charger

Motorola NTN4734A Saber / Astro Battery Desktop Charger. Output 9.5VDC 1.5A. Requires 115 VAC 60Hz. It has been tested and is in good physical condition. With power cord.



6.5x7.6x3.3, 6 lbs sh. #NTN4734A, Used, \$29.95

As above but less power cord. #4734A-NOCORD, Used, \$24.95

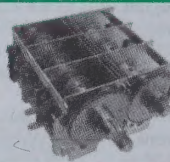
## 27.3VDC 7.5A Supply



27.3VDC 7.5 Amp Elpac Power Supply. Input is 115VAC 60Hz. Not Regulated. 5x8x3.9, 15 lbs sh. #BFS200-24, \$34.95

## Air Variable

Tuning Capacitor Assembly for RT-66-67-68 transmitters. 6 sections; four 8-64pf, two 8-55pf. Also six 4-23pf trimmers. Dual geared 3/8" diameter shafts; 4.8x4.8x3, 3 lbs sh. #3D9067E6, Unused, \$10



## RF Relay



Transco SPDT RF relay 82152-11300-75, 28 VDC coil. Connectors are similar to type N, but are 75 ohm. The connectors will not mate with type N. Two operation

coils, one is marked "energize to close" and the other is marked "energize to open". 1 lb sh. #11300-75, Used excellent, \$85.00

## Knobs

High Quality Large Knurled Knob with brush aluminum face. Overall 1 3/4" diameter. Accepts 1/4" diameter shaft. #RN-99A, \$1.89 each; 2 for \$3.09

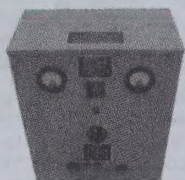


As above except overall 1" diameter. #RN-99D, \$1.69 each; 2 for \$2.79

As above except overall 3/4" diameter. #RN-99F, \$1.29 each; 2 for \$2.29

## Adjustable Supply

PP-1104A Power Supply, Output 11.5 to 17.5VDC (14VDC operation) at 100 amps or 23 to 35VDC (28VDC operation) at 50 amps. 8 equal step output voltage adjustment for either output. Requires 115 or 230VAC 60 Hz. Meters for volts and amps. Pilot light and circuit breakers. Louvers on sides and grilles in the back and bottom. Housed in metal cabinet 13.3x22.3x27.6. 215 lbs sh. #PP-1104A, Unused, \$350.00



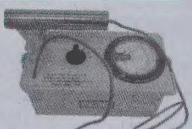
## Transponder



BC-645 Airborne Interrogator Transponder covering 460 to 490MHz. 15 tubes. Part of SCR-515. Receiver IF is 40 MHz. Transmitter is a tuned-line oscillator which operates on either of 2 pre-adjusted frequencies in the range 435 to 500 MHz. Powered by PE-101 (Not Available) from either 12 or 24 volts. 13.5x10.5x4.8, 20 lbs sh. #BC-645, Unused, \$79.50

## Geiger Counter

CDV-700 Radiac Set Geiger Counter is portable, battery powered (size "d" common flashlight batteries), transistorized geiger-muller tube as the detector. The three operating ranges of the instrument are ; x1 0-5 mr/hr, x2 0-5 mr/hr, x3 0-50 mr/hr. You can view the complete manual, for free, including circuits and detailed troubleshooting, at: <http://www.orau.org/ptp/museumlibrary.htm#civildefensemanuals>. 8.8x4.5x6.8, 7 lbs sh. #CDV-700, Used, \$110.00 each



## 10KV Capacitor



High Voltage Axial Capacitor 0.01 mfd 10,000 volts Made by

Dearborn. 5/8" diameter x 2 1/4", #430P, New, \$4.00 each; 3 / \$10.00

## 1000V 1.1A Transformer



Very Nice Transformer for Audio Amplifier Construction. 1000 VCT 1.1 Amps. Black military grade transformer. Input voltage: Pri: 117 V 60 hz 175 Working Volts. Output voltage: Sec 1000 VCT 1.1 Amps 640 Working Volts. The 640 Working Volts means that you CAN-

NOT use a full wave bridge to get 1100 volts DC. 5.5" x 6" x 7.75" H overall. 38 lbs. #1000V-1.1A, \$79.50

## Torroidal Transformer

Torroid Transformer has dual 24VCT 8 amps outputs from 115V 60Hz input. With hardware & 2.3x8.8x5.6 chassis. Torroid 4.5" diameter x 1.5" height. 8 lbs sh. #BC-24V-ASSY. \$35.95



## 28.5V 35.7A Xformer



Sealed Transformer 28 Volt (not center tap) at 35.7 amps secondary. Primary is 115 Volts. 5.7x6.3x7.7, 43 lbs sh. Made by Walker Electrical. Unused, #35.7AMP, \$100.00

## 16.6VCT 6A Transformer

16.8VCT 6 Amp, 15.5VCT 250ma. Input 115VAC. Open Frame Epoxy Coated, 2.9x3.3x4.1, 6 lbs sh. #32-16.8V-6A, \$12.95



## 250 Volt Dynamotors



DY-86 Dynamotor. Input 25VDC 1.7 amps. Output 250VDC 85ma. Usable with ARC-5 rdios. Good substitute for DM-32. 6 lbs sh. Used, #DY-86, \$24.95

PE-86 dynamotor originally used on WW2 B-24 bombers to power BC-347 intercom system. Power input 28 VDC 1.25 amps, output 250 VDC 60 ma. 5.3x3.3x4.8, 6 lbs sh. #PE-86, Used, \$19.95

